

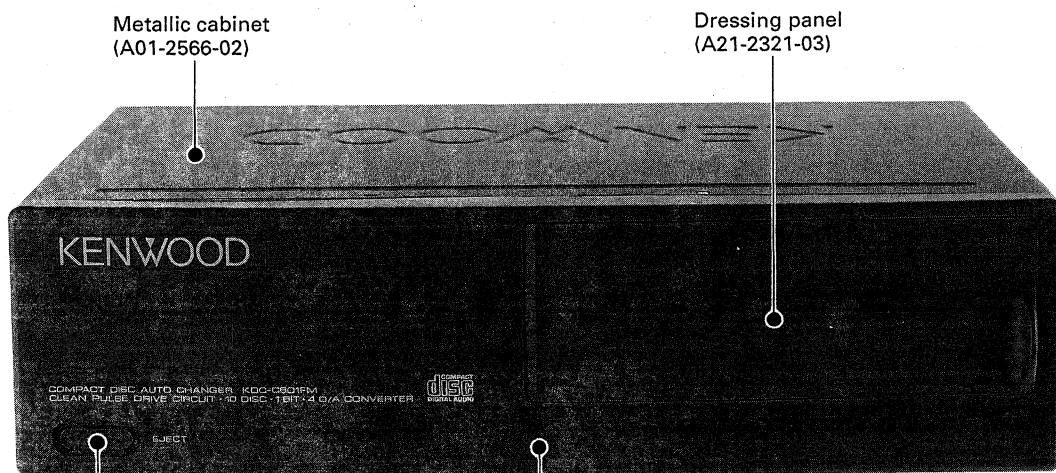
COMPACT DISC AUTO CHANGER

# KDC-C601FM

## SERVICE MANUAL

# KENWOOD

© 1993-3 PRINTED IN JAPAN  
B51-6580-00 (O) 2217



Knob  
(K24-1326-04)

Panel ass'y  
(A64-0107-03)

Cord with plug  
(E30-4000-05)

Screw set  
(N99-1576-15)

Holder  
(J19-4468-04)

Holder ass'y  
(J19-4409-22)

13P cord ass'y  
(E30-4086-08)

RF modulator

Remote controller ass'y  
(A70-0829-05)

Bracket (R)  
(J19-4443-14)

Bracket (L)  
(J19-4444-14)

Mounting hardware ass'y  
(J21-7328-14)

Adhesive tape  
(J69-0503-04)

ANT cord ass'y  
(E30-3707-08)

Display ass'y  
(T95-0211-08)

Accessory  
(W01-0714-08)

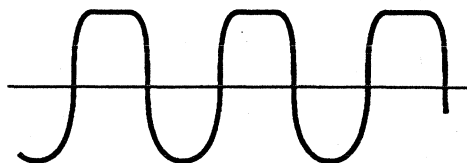
# KDC-C601FM

## ADJUSTMENT (RF MODULATOR)

### RF MODULATOR

#### 1. DC balance adjustment

Connect an oscilloscope to TP5. (AC)  
Rotate VR302 to adjust the upper and lower sides of the displayed waveform are symmetry.

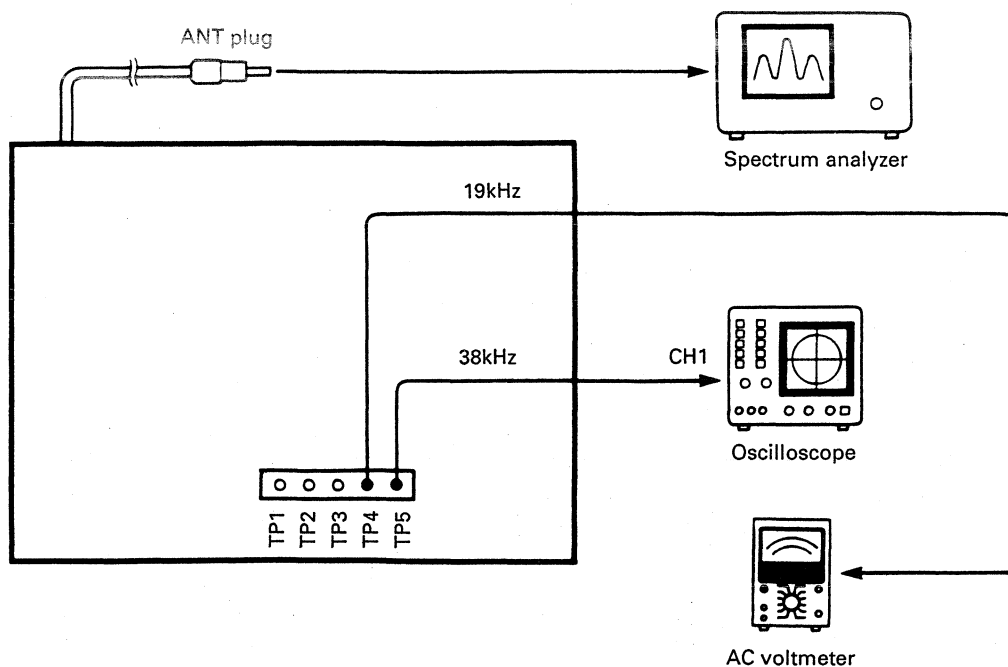


#### 2. Pilot level adjustment

Connect an AC voltmeter to TP4.  
Adjust VR303 so that the AC voltmeter reads 44mV ( $\pm 0.5\text{dBm}$ ).

#### 3. Transmitting frequency adjustment

Connect the spectrum analyzer to ANT plug.  
Lo : Adjust TC301 so that the spectrum analyzer reads  $88.3 \pm 0.005\text{MHz}$ .  
Hi : Adjust TC302 so that the spectrum analyzer reads  $88.7 \pm 0.005\text{MHz}$ .



# KDC-C601FM

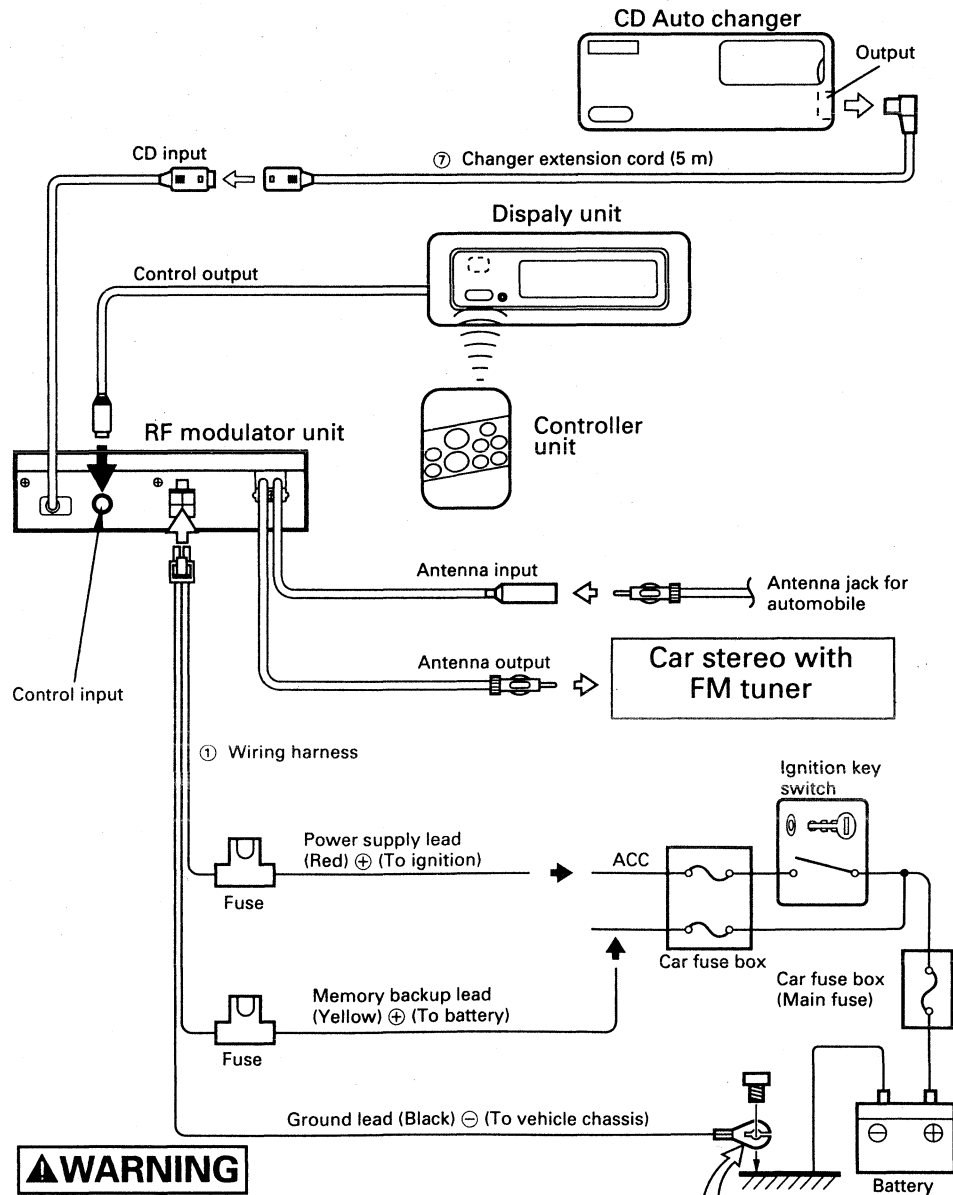
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# KDC-C601FM

## CONNECTIONS



### ⚠ WARNING

- To prevent fires when the Power supply lead (Red) and the Memory backup lead (Yellow) are short-circuited by coming into contact with the vehicle chassis (ground), only connect the power supply after making the fuse box connections first.

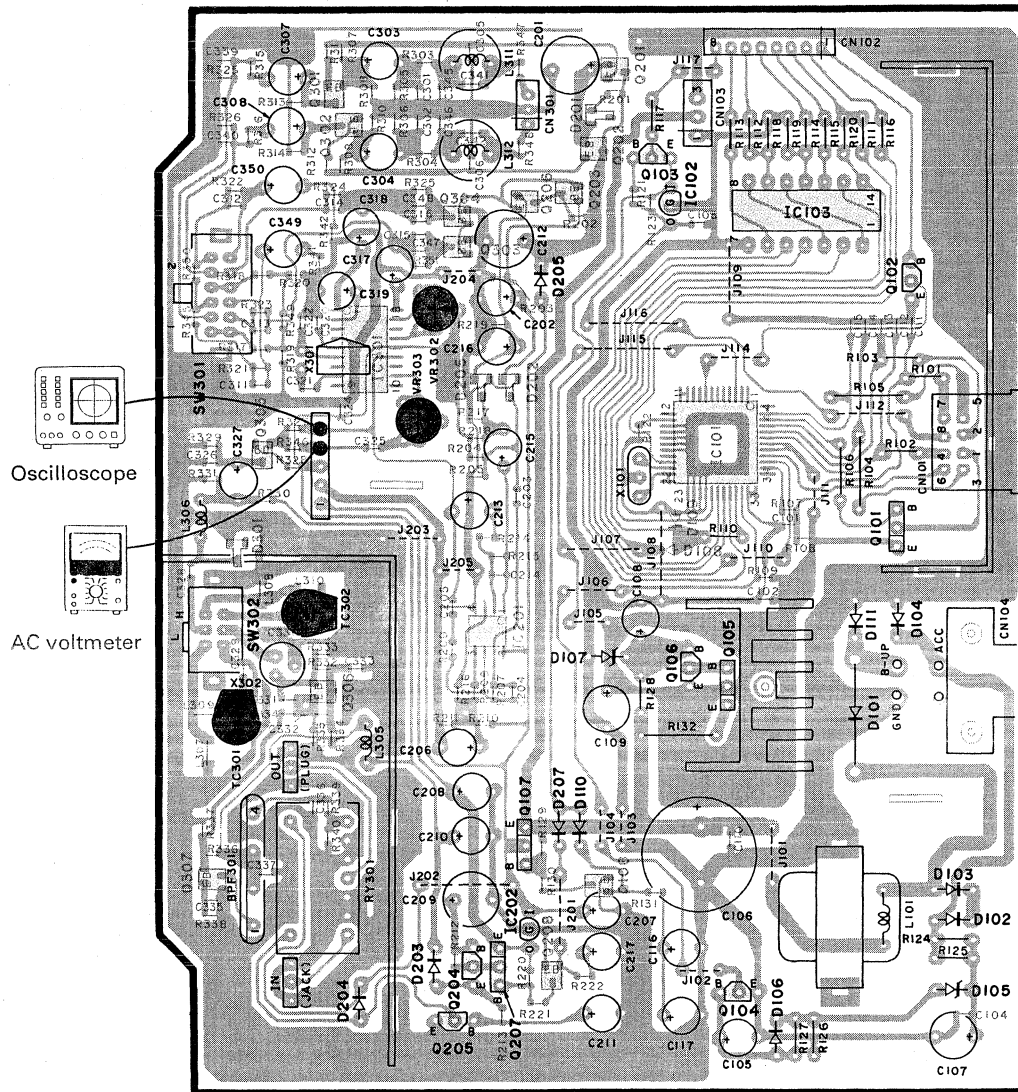
Connect the ground lead to the metal part which is connected to the ⊖ terminal of the battery.



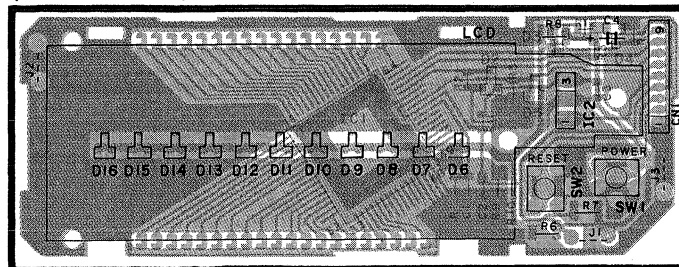


# PC BOARD (FOIL SIDE VIEW) : RF MODULATOR

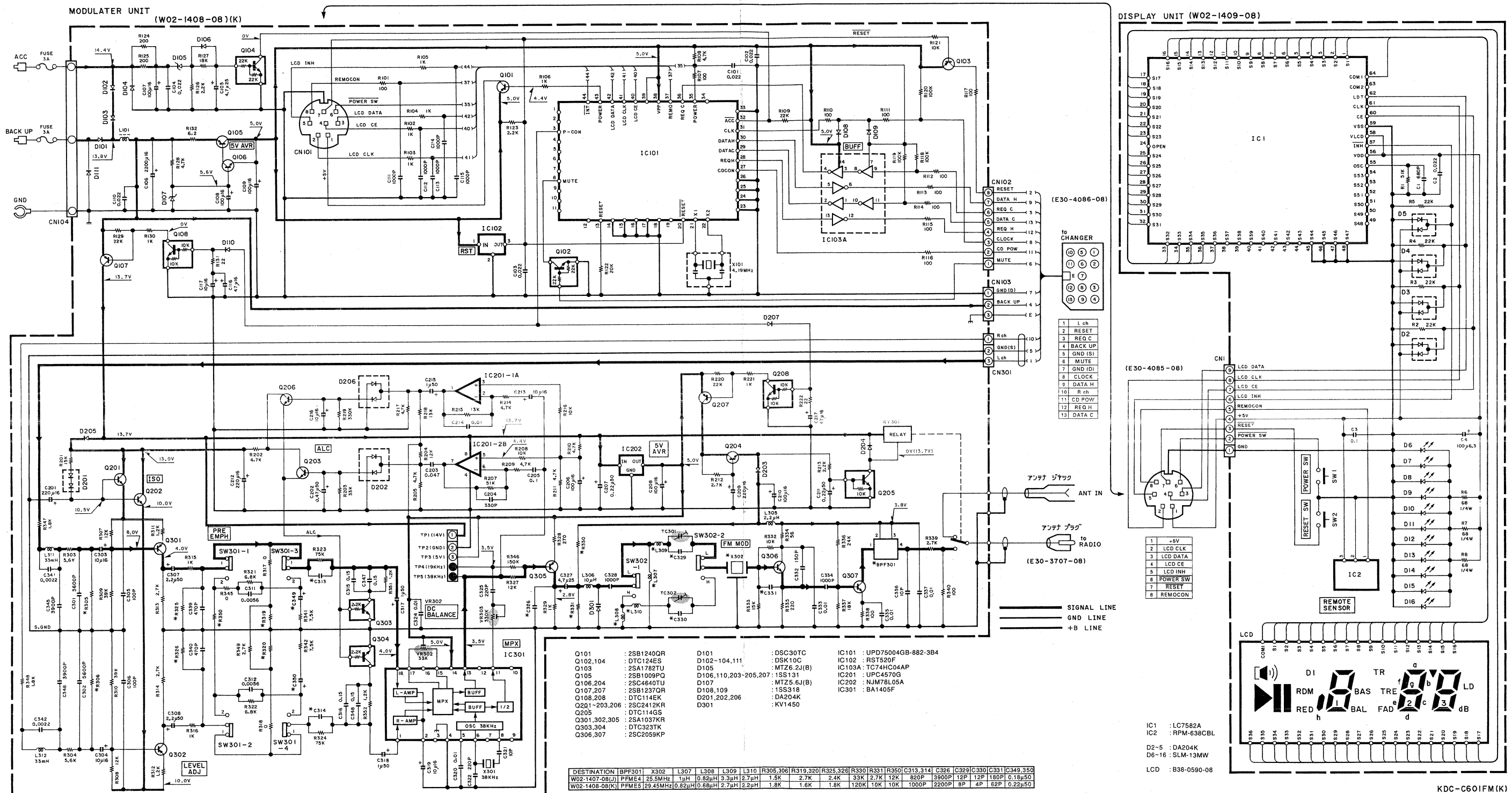
MODULATOR UNIT  
(W02-1408-08)



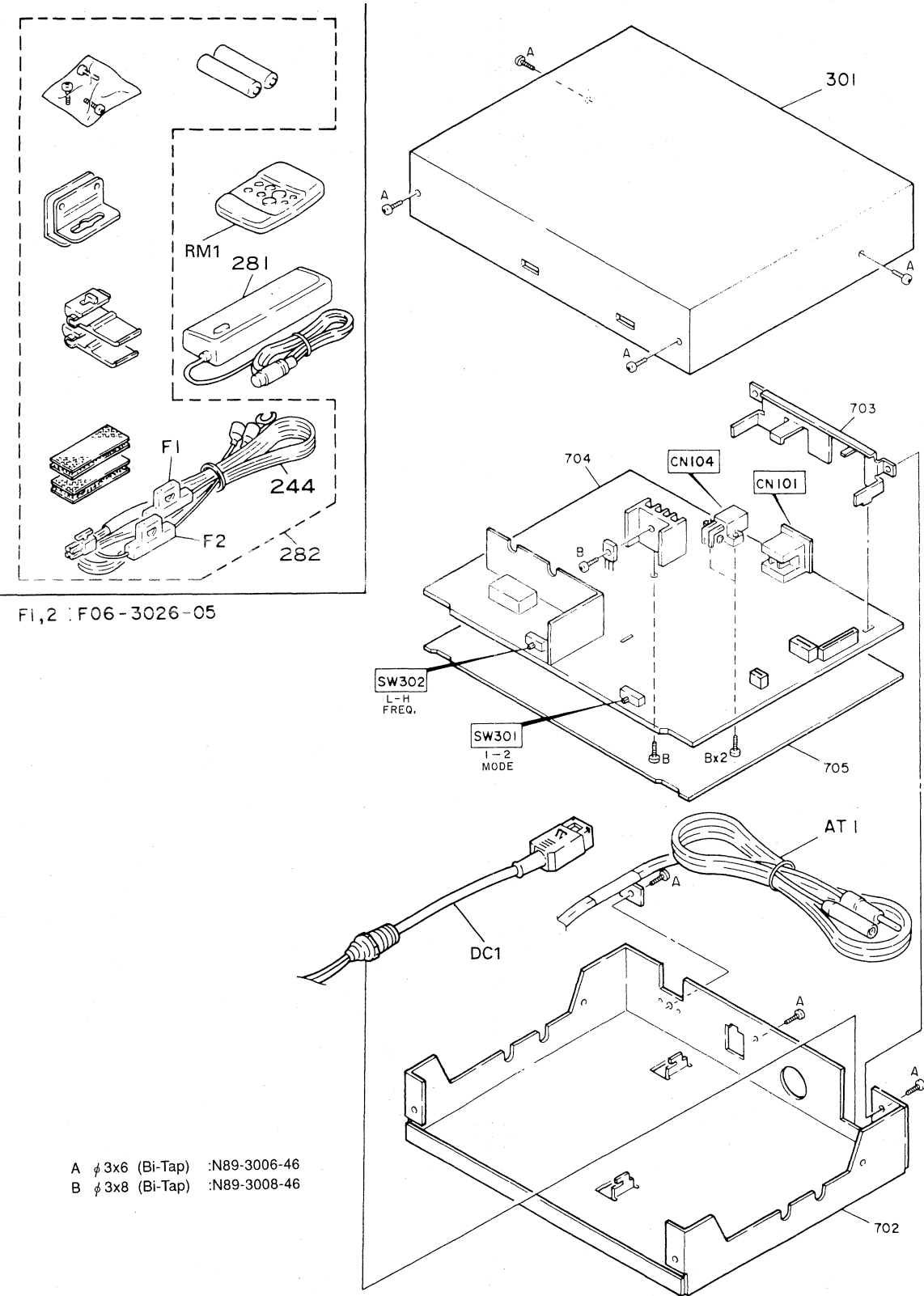
DISPLAY UNIT  
(W02-1409-08)



Refer to the schematic diagram for the values of resistors and capacitors.



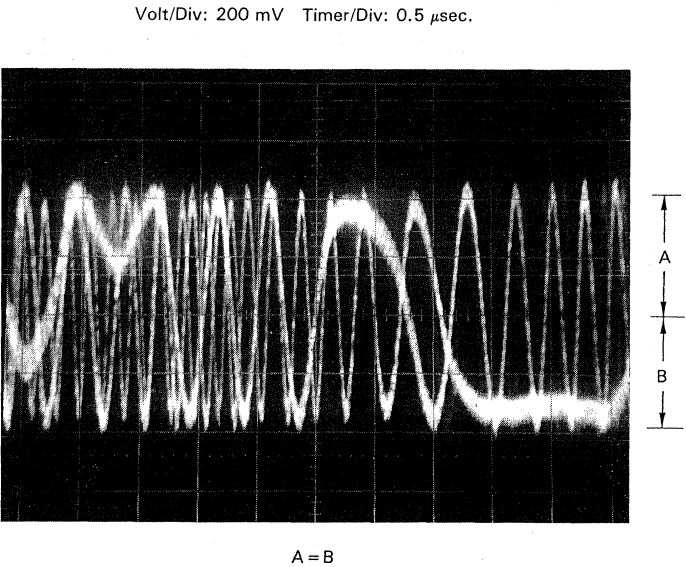
KDC-C601FM  
EXPLODED VIEW (RF MODULATOR)



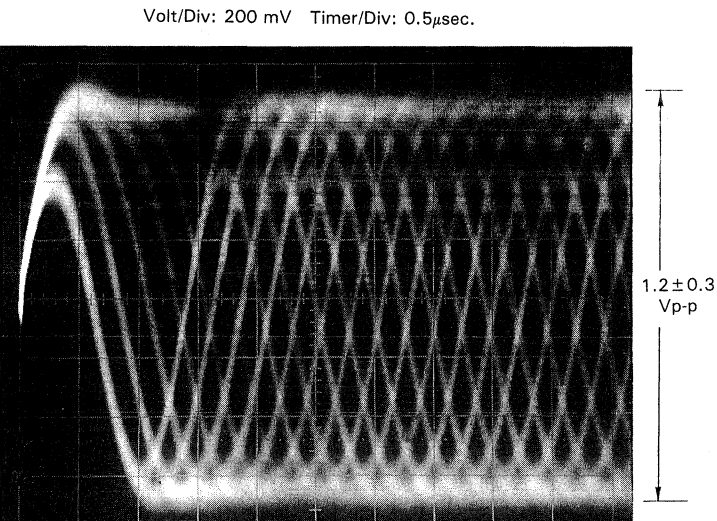
Parts with the exploded numbers larger than 700 are not supplied.

KDC-C601FM  
ADJUSTMENT

- 1. Tracking offset adjustment**
1. Connect a test jumper wire between the test point (TEST2) and (+5 V).
  2. Connect a test jumper wire between the test point (TOFF) and (Vref).
  3. Connect an oscilloscope between the test point (TE) and (Vref).
  4. Put the set into play mode by loading the disc.
  5. Adjust VR2 so that the oscilloscope reading is symmetrical in relation to 0 V.
  6. After adjusting, reset 1 and 2 as original.



- 2. Focus offset adjustment**
1. Connect an oscilloscope to the test point (RF).
  2. Put the set into play mode by loading the disc.
  3. Adjust VR1 so that the oscilloscope waveform eye pattern is good.
- A good eye pattern means that the diamond shape ( $\diamond$ ) in the center of the oscilloscope can be clearly distinguished.





1

2

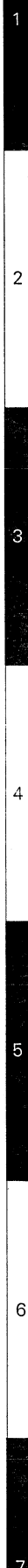
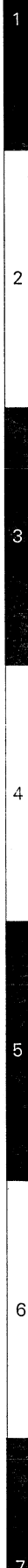
3

4

5

6

7



1

2

3

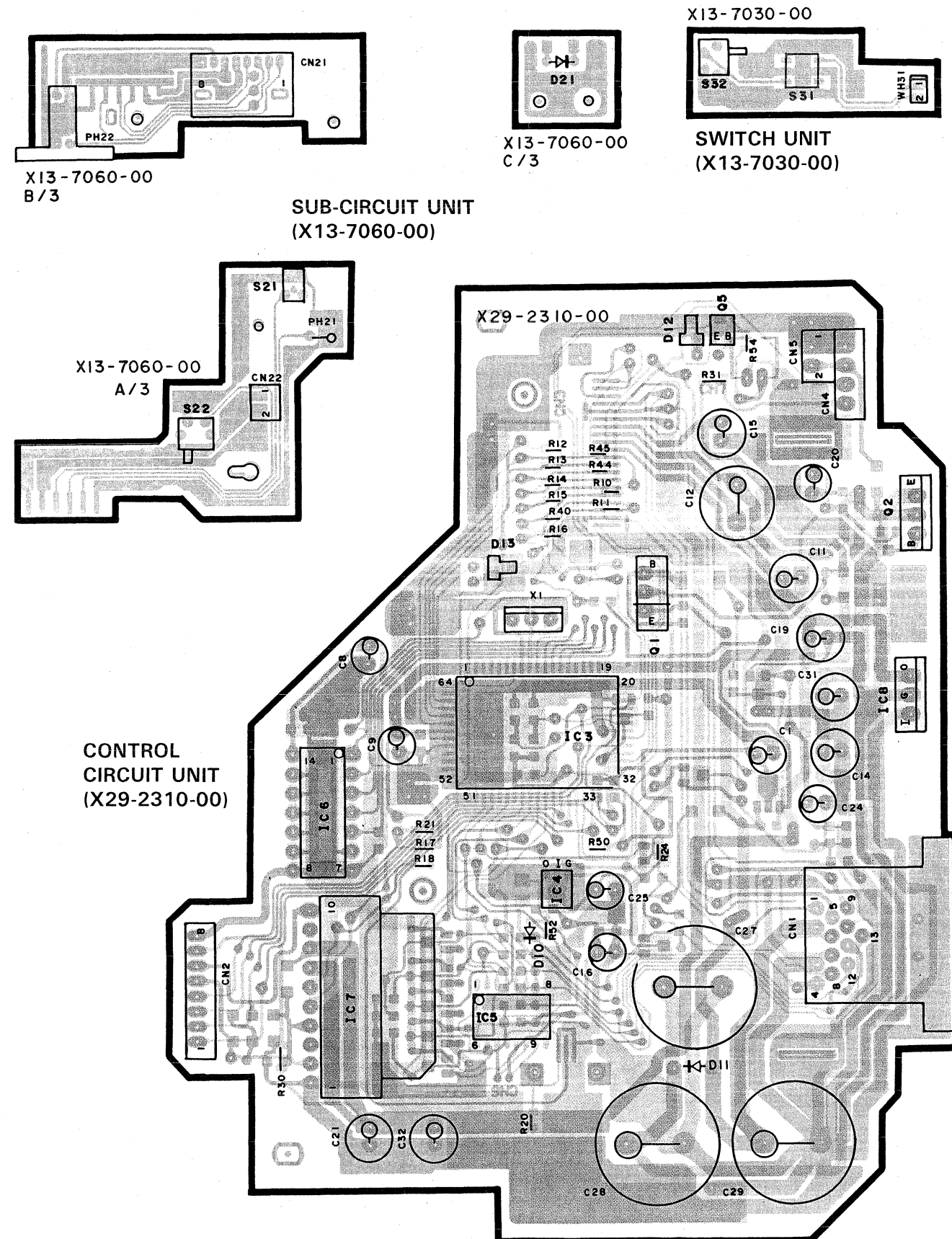
4

5

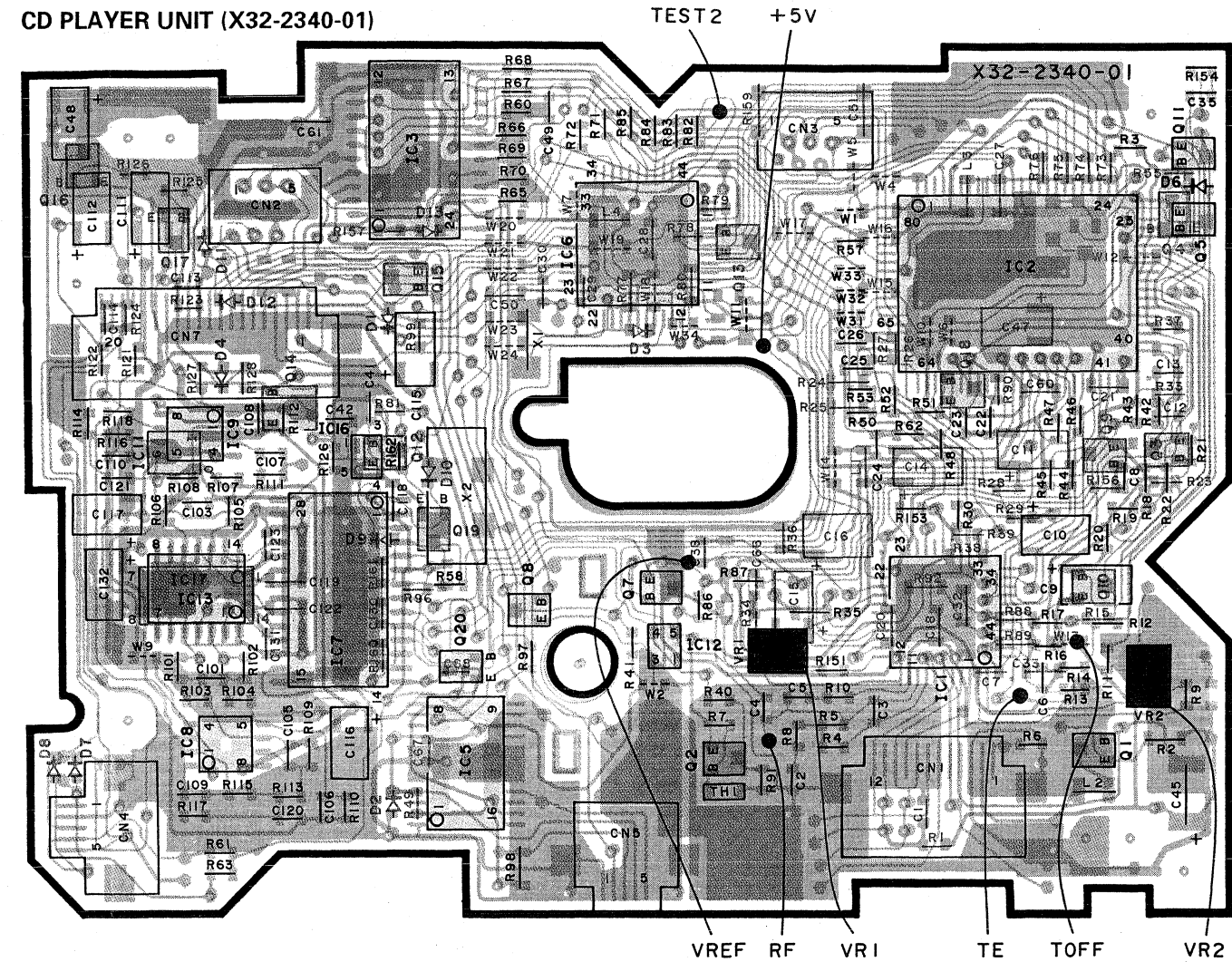
6

7

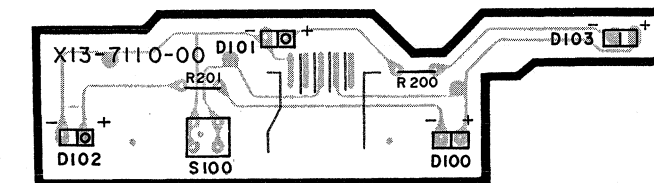
# PC BOARD (FOIL SIDE VIEW)



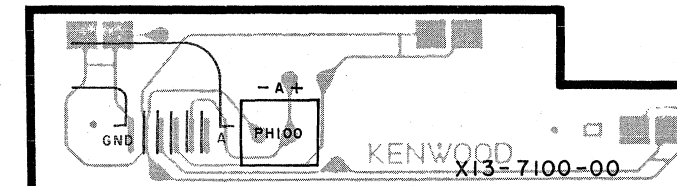
## CD PLAYER UNIT (X32-2340-01)



## SUB CIRCUIT UNIT (X13-7110-00)



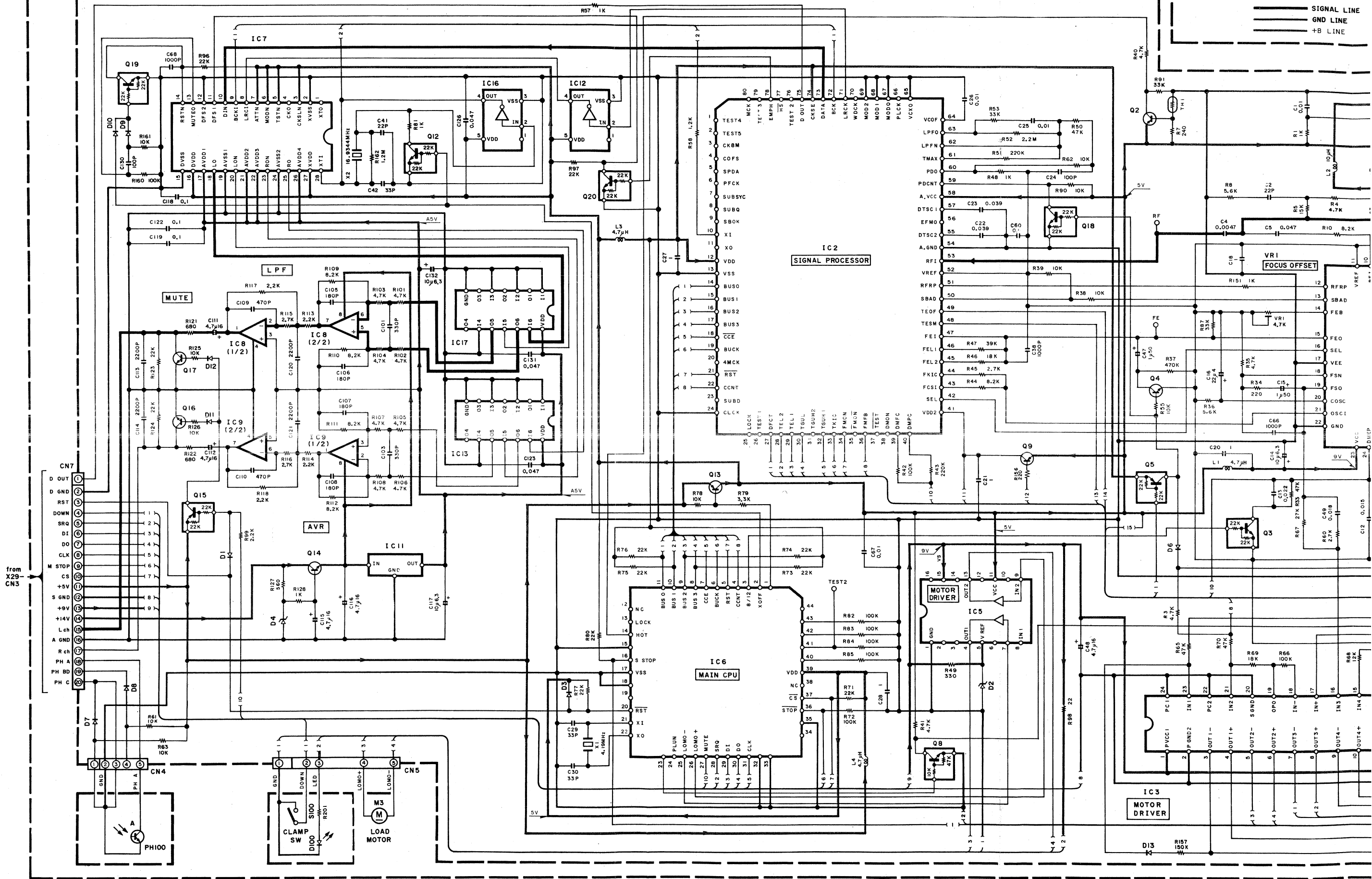
## SUB CIRCUIT UNIT (X13-7100-00)

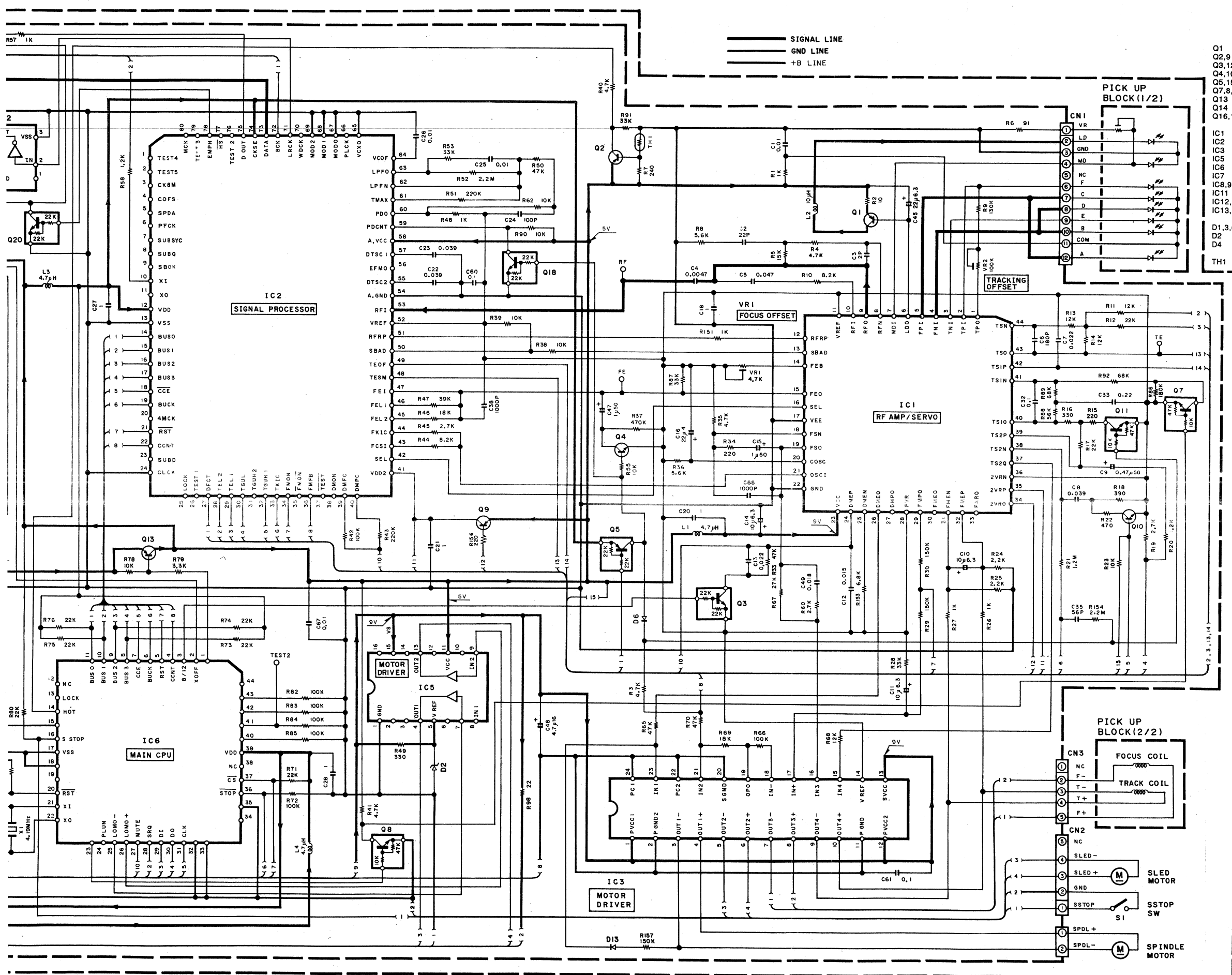


Refer to the schematic diagram for the values of resistors and capacitors.



CD MECHA. ASS'Y (X92-1660-0X)  
(X32-2340-01)





- Q1 : 2SB624(BV3)  
 Q2,9 : 2SA1037K  
 Q3,12,18-20 : DTC124EK  
 Q4,10 : 2SC2412K  
 Q5,15 : DTA124EK  
 Q7,8,11 : DTC114YK  
 Q13 : 2SA1362(Y)  
 Q14 : 2SD1624  
 Q16,17 : 2SD1757K
- IC1 : TA8191F  
 IC2 : TC9236AF  
 IC3 : AN8388SR  
 IC5 : TA7291F  
 IC6 : 75008GB-696-3B4  
 IC7 : SM5871AS  
 IC8,9 : NJM4555MD  
 IC11 : TA78L05F  
 IC12,16 : TC7SU04F  
 IC13,17 : TC74AC04F
- D1,3,6-13 : MA110  
 D2 : MA8062  
 D4 : MA8091
- TH1 : NT732BD33K

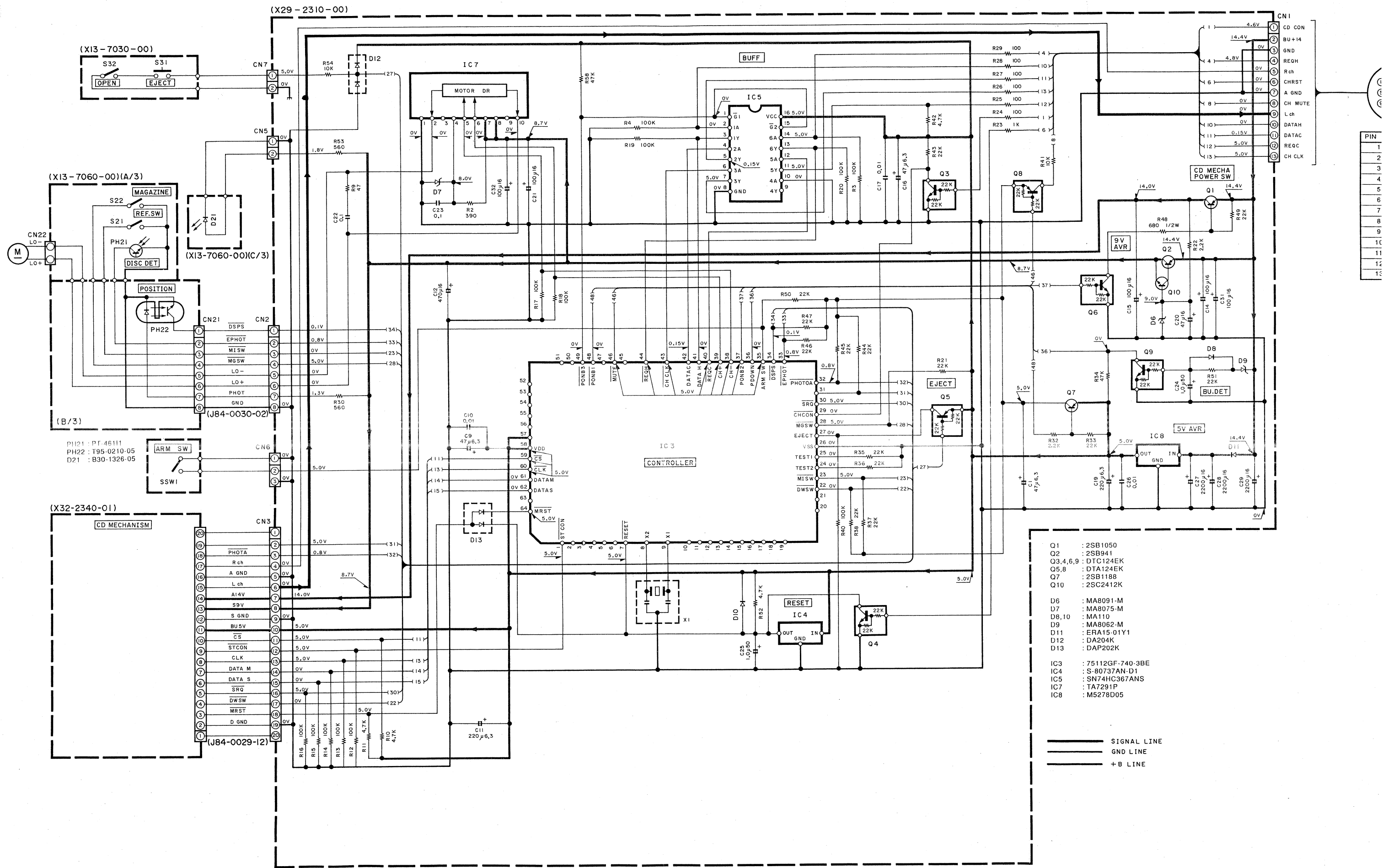
• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

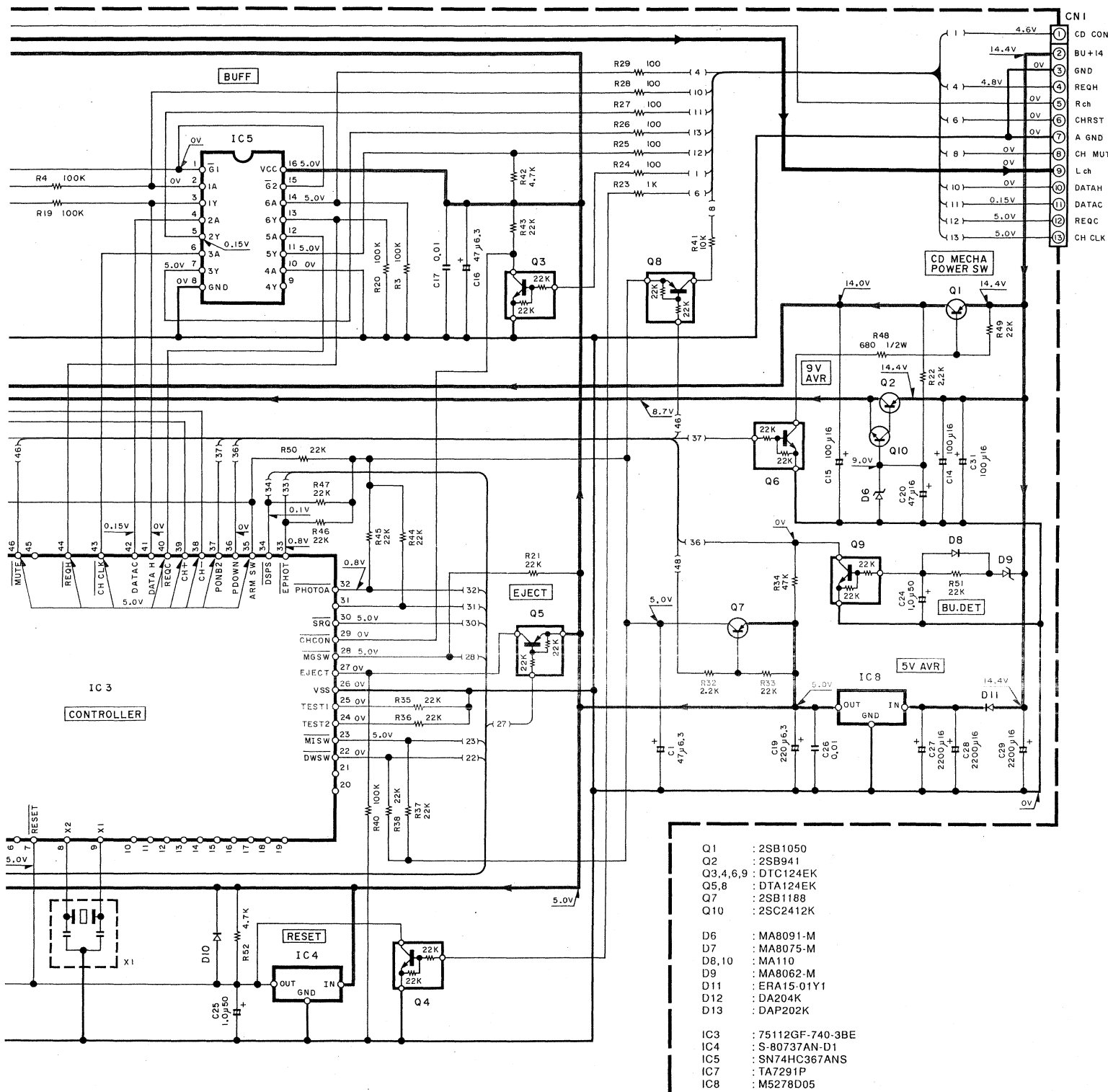
**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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## KENWOOD







- Q1 : 2SB1050  
 Q2 : 2SB941  
 Q3,4,6,9 : DTC124EK  
 Q5,8 : DTA124EK  
 Q7 : 2SB1188  
 Q10 : 2SC2412K
- D6 : MA8091-M  
 D7 : MA8075-M  
 D8,10 : MA110  
 D9 : MA8062-M  
 D11 : ERA15-01Y1  
 D12 : DA204K  
 D13 : DAP202K
- IC3 : 75112GF-740-3BE  
 IC4 : S-80737AN-D1  
 IC5 : SN74HC367ANS  
 IC7 : TA7291P  
 IC8 : M5278D05

— SIGNAL LINE  
 — GND LINE  
 — +B LINE

| PIN No. | PIN NAME |
|---------|----------|
| 1       | CD CON   |
| 2       | BU +14V  |
| 3       | GND      |
| 4       | REQH     |
| 5       | R ch     |
| 6       | CHRST    |
| 7       | A GND    |
| 8       | CH MUTE  |
| 9       | L ch     |
| 10      | DATAH    |
| 11      | DATAC    |
| 12      | REQC     |
| 13      | CH CLK   |

2SB1009

2SB1050

NJM78L05A-T3

AN8388SR

DTC124ES

TC74HC04AP

TA78L05F

SM5871AS

DTA124EK  
DTC114YK  
DTC323TK  
2SA1362  
2SC2412K

DTC114EK  
DTC124EK  
2SA1037K  
2SB624  
2SD1757K

NJM4565MD  
UPC4570G

TA7291P

TC9236AF

2SB1188  
2SD1624

TA7291F

SN74HC367ANS

TA8191F  
75008GB-696-3BE

2SB941

PST520F

TC74AC04F

M5278D05

2SB1237

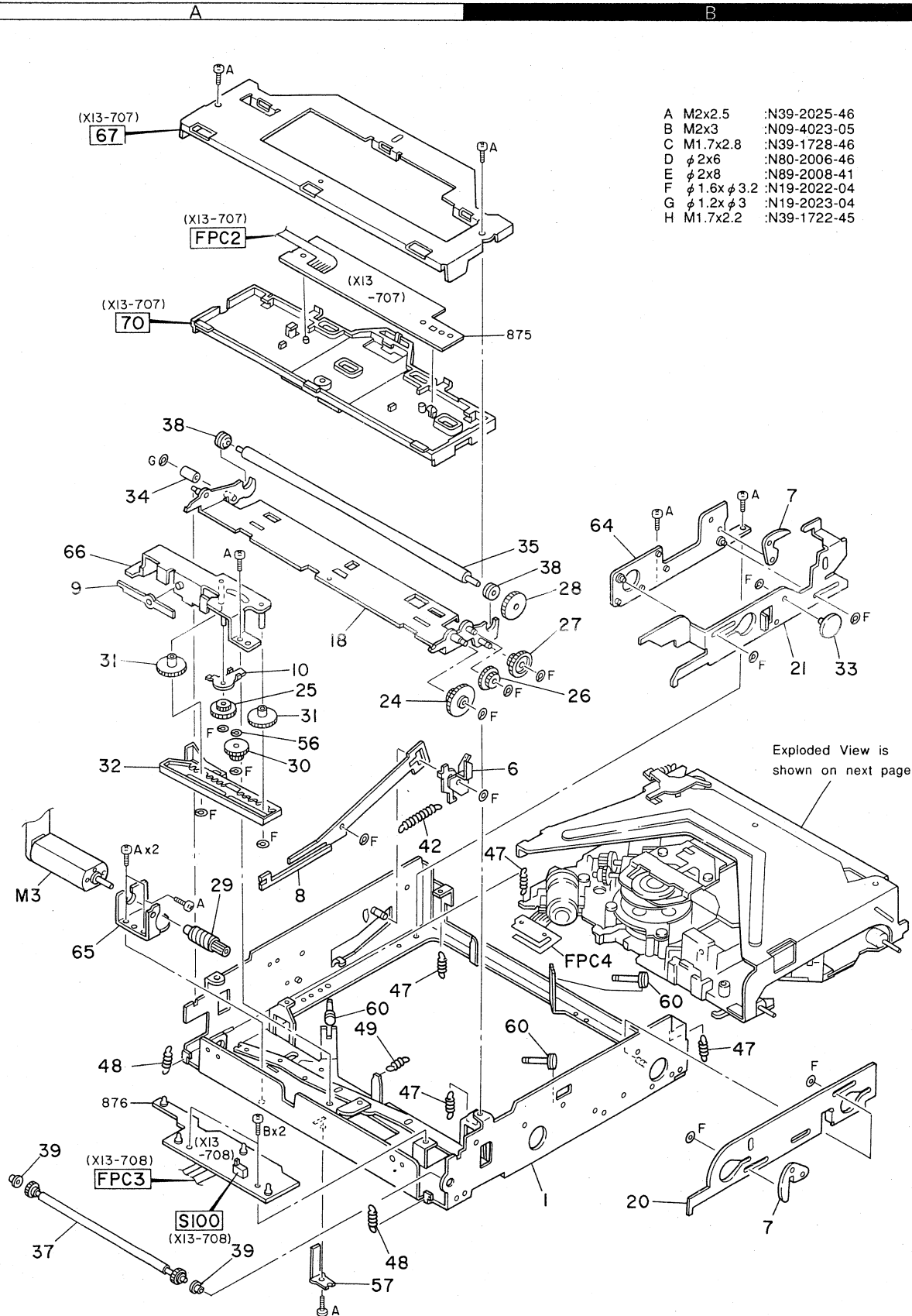
TC7SU04F

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

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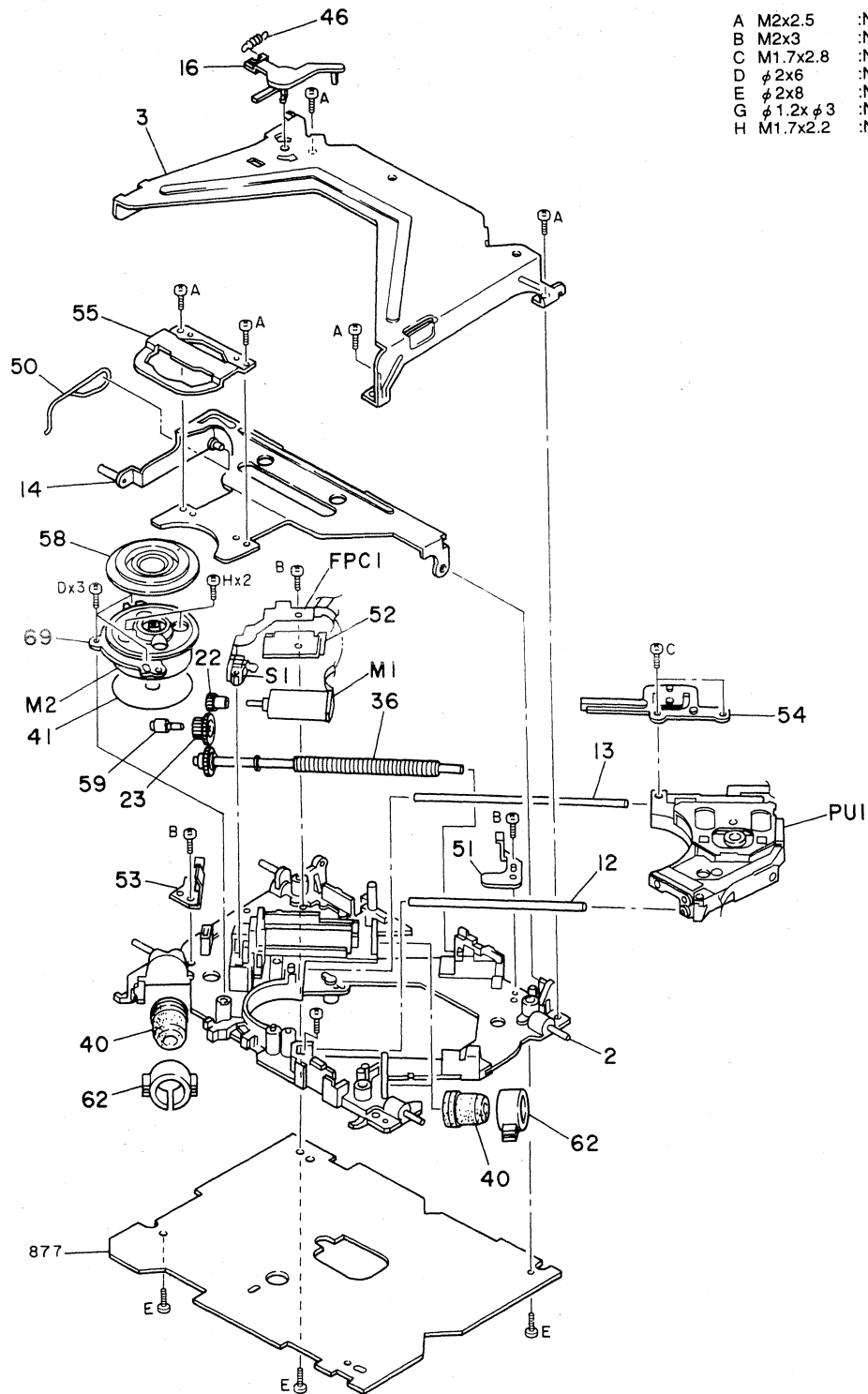
## EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

# KDC-C601FM

## EXPLODED VIEW (MECHANISM)



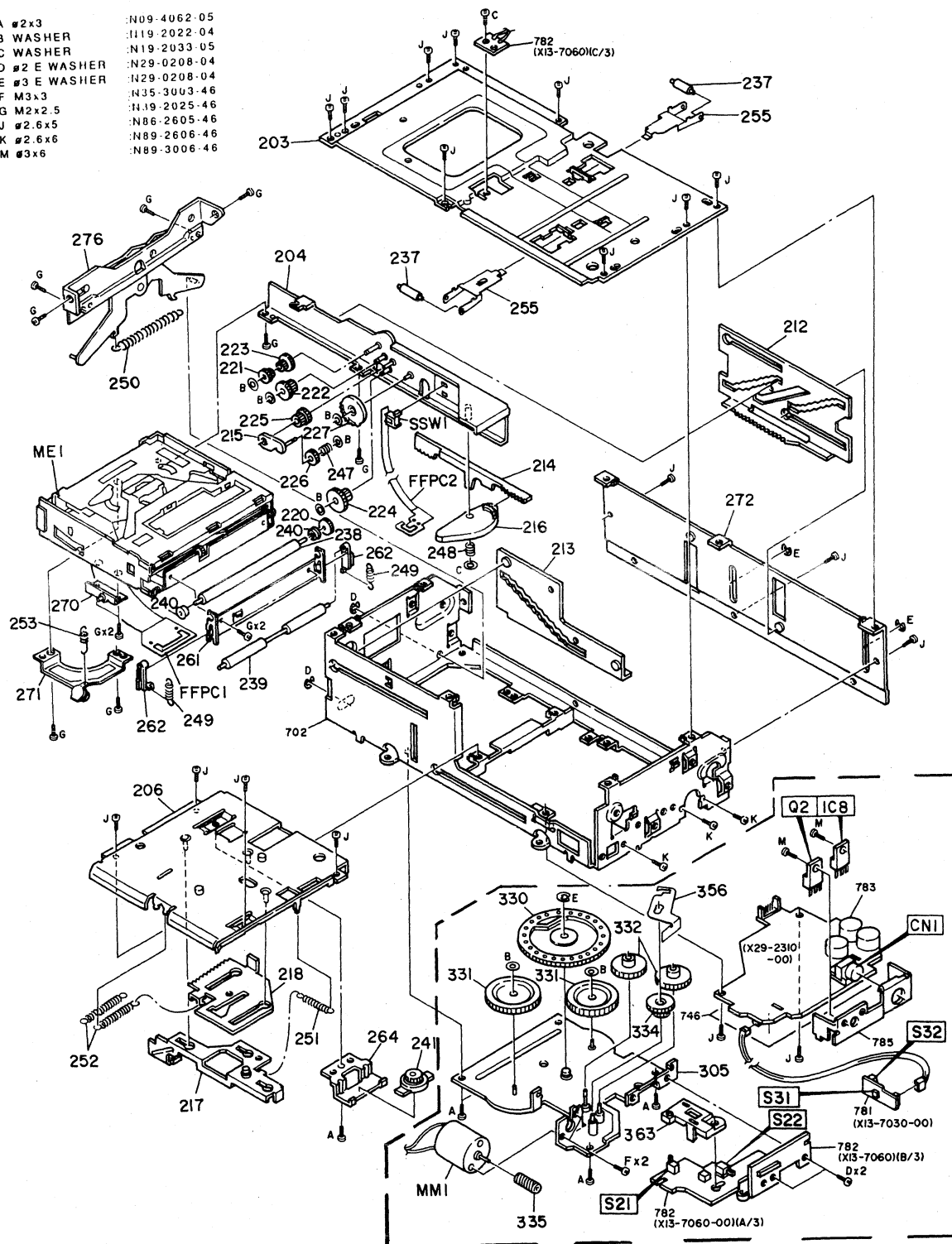
|   |            |              |
|---|------------|--------------|
| A | M2x2.5     | :N39-2025-46 |
| B | M2x3       | :N09-4023-05 |
| C | M1.7x2.8   | :N39-1728-46 |
| D | φ 2x6      | :N80-2006-46 |
| E | φ 2x8      | :N89-2008-41 |
| G | φ 1.2x φ 3 | :N19-2023-04 |
| H | M1.7x2.2   | :N39-1722-45 |

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# KDC-C601FM

## EXPLODED VIEW (UNIT)

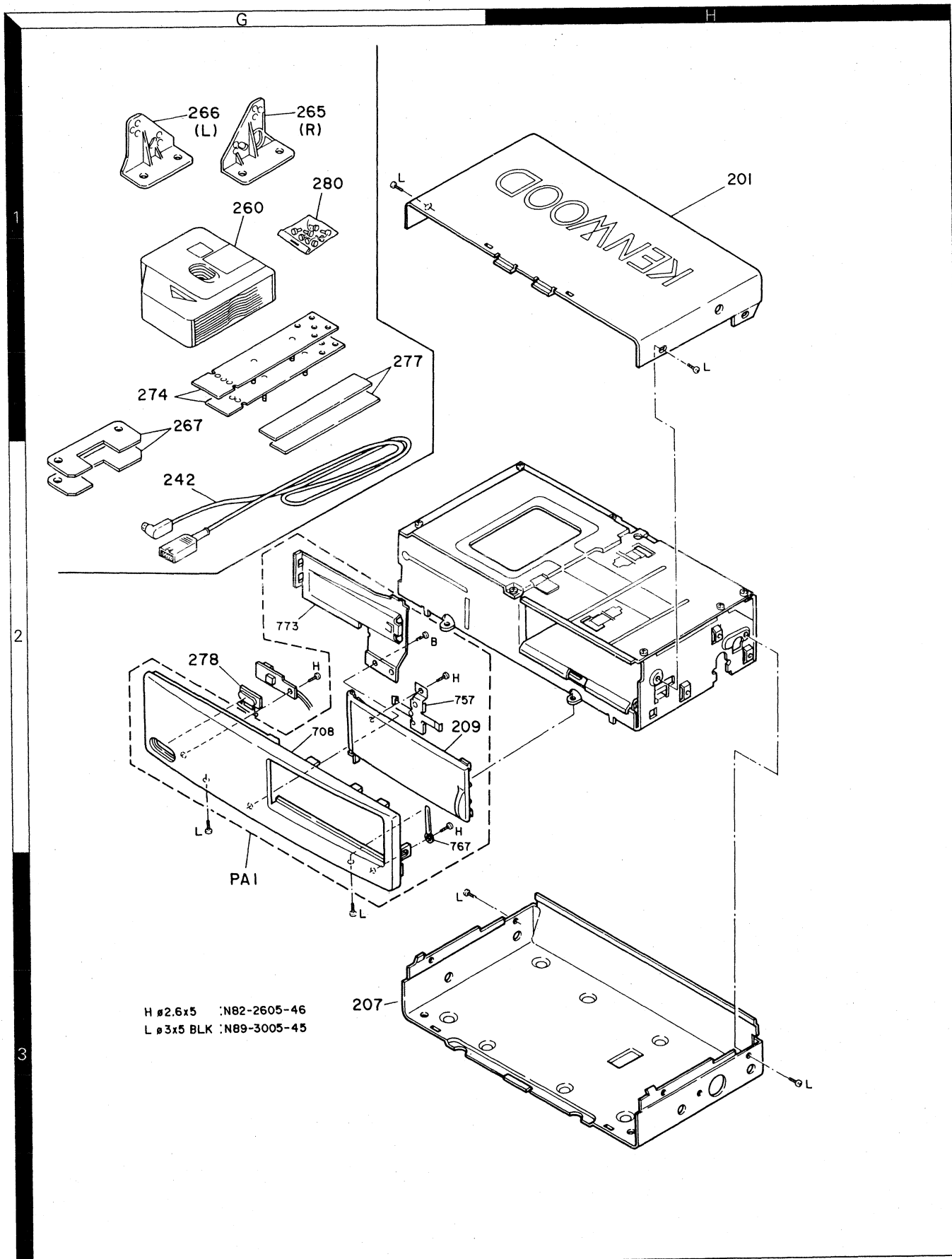
|               |             |
|---------------|-------------|
| A #2x3        | N09-4062-05 |
| B WASHER      | N19-2022-04 |
| C WASHER      | N19-2033-05 |
| D #2 E WASHER | N29-0208-04 |
| E #3 E WASHER | N29-0208-04 |
| F M3x3        | N35-3003-46 |
| G M2x2.5      | N19-2025-46 |
| J #2.6x5      | N86-2605-46 |
| K #2.6x6      | N89-2606-46 |
| M #3x6        | N89-3006-46 |



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# KDC-C601FM

## EXPLODED VIEW (UNIT)



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## PARTS LIST

× New Parts

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Teile ohne Parts No. werden nicht geliefert.

| Ref. No.<br>参照番号  | Address<br>位置 | New<br>Parts<br>新 | Parts No.<br>部品番号 | Description<br>部品名 / 規格                | Desti-<br>nation<br>仕向 | Re-<br>marks<br>備考 |
|-------------------|---------------|-------------------|-------------------|--|------------------------|--------------------|
| <b>KDC-C601FM</b> |               |                   |                   |  |                        |                    |
| 201               | 1H            | *                 | A01-2566-02       | METALLIC CABINET                       |                        |                    |
| 203               | 1E, 1F        | *                 | A10-2132-22       | CHASSIS                                |                        |                    |
| 204               | 1E            | *                 | A10-2133-23       | CHASSIS CALKING ASSY                   |                        |                    |
| 206               | 3E            | *                 | A10-2137-03       | CHASSIS CALKING ASSY                   |                        |                    |
| 207               | 3H            | *                 | A10-2224-02       | CHASSIS                                |                        |                    |
| 209               | 2G            | *                 | A21-2321-03       | DRESSING PANEL                         |                        |                    |
| PA1               | 2G            | *                 | A64-0107-03       | PANEL ASSY                             |                        |                    |
| RM1               | 1I            | *                 | A70-0829-05       | REMOTE CONTROLLER ASSY                 |                        |                    |
| -                 |               |                   | B46-0100-20       | WARRANTY CARD                          |                        |                    |
| -                 |               |                   | B46-0172-03       | QUESTIONNAIRE CARD                     |                        |                    |
| -                 |               | *                 | B64-0274-00       | INST. MANUAL (EN, FR, NE, IT, SP, GE ) |                        |                    |
| 212               | 1F            |                   | D10-2718-03       | SLIDER                                 |                        |                    |
| 213               | 2F            |                   | D10-2719-04       | SLIDER ASSY                            |                        |                    |
| 214               | 2E            |                   | D10-2723-13       | SLIDER                                 |                        |                    |
| 215               | 1E            |                   | D10-2724-04       | ARM ASSY                               |                        |                    |
| 216               | 2E            |                   | D10-2726-04       | LEVER                                  |                        |                    |
| 217               | 3E            |                   | D10-2729-54       | LEVER ASSY                             |                        |                    |
| 218               | 3E            |                   | D10-2733-04       | SLIDER                                 |                        |                    |
| 220               | 2E            |                   | D13-1044-24       | GEAR                                   |                        |                    |
| 221               | 1E            |                   | D13-1089-14       | GEAR                                   |                        |                    |
| 222               | 1E            |                   | D13-1090-04       | GEAR                                   |                        |                    |
| 223               | 1E            |                   | D13-1091-04       | GEAR                                   |                        |                    |
| 224               | 2E            | *                 | D13-1092-14       | GEAR                                   |                        |                    |
| 225               | 1E            |                   | D13-1093-04       | GEAR                                   |                        |                    |
| 226               | 2E            |                   | D13-1094-04       | GEAR                                   |                        |                    |
| 227               | 1E            | *                 | D13-1095-13       | GEAR                                   |                        |                    |
| 237               | 1E, 1F        |                   | D14-0625-04       | ROLLER                                 |                        |                    |
| 238               | 2E            |                   | D14-0626-13       | ROLLER                                 |                        |                    |
| 239               | 2E            |                   | D14-0627-03       | ROLLER                                 |                        |                    |
| 240               | 2E            |                   | D23-0905-24       | RETAINER                               |                        |                    |
| 241               | 3E            |                   | D39-0213-05       | DAMPER                                 |                        |                    |
| 242               | 1G            |                   | E30-4000-05       | CORD WITH PLUG                         |                        |                    |
| 247               | 2E            |                   | G01-2592-04       | COMPRESSION SPRING                     |                        |                    |
| 248               | 2E            |                   | G01-2593-04       | COMPRESSION SPRING                     |                        |                    |
| 249               | 2E            |                   | G01-2594-04       | EXTENSION SPRING                       |                        |                    |
| 250               | 1E            |                   | G01-2595-04       | EXTENSION SPRING                       |                        |                    |
| 251               | 1E            |                   | G01-2596-04       | EXTENSION SPRING                       |                        |                    |
| 252               | 3E            |                   | G01-2597-24       | EXTENSION SPRING                       |                        |                    |
| 255               | 1F            |                   | G02-1142-04       | FLAT SPRING                            |                        |                    |
| -                 |               |                   | H10-4399-02       | POLYSTYRENE FOAMED FIXTURE             |                        |                    |
| -                 |               |                   | H10-4414-02       | POLYSTYRENE FOAMED FIXTURE             |                        |                    |
| -                 |               | *                 | H10-4443-08       | POLYSTYRENE FOAMED FIXTURE             |                        |                    |
| -                 |               | *                 | H13-1598-08       | PACKING FIXTURE                        |                        |                    |
| -                 |               |                   | H25-0336-04       | PROTECTION BAG (170X250X0.03)          |                        |                    |
| -                 |               | *                 | H25-0338-08       | PROTECTION BAG                         |                        |                    |
| -                 |               |                   | H25-1110-04       | PROTECTION BAG (300X450X0.5)           |                        |                    |
| -                 |               | *                 | H54-0060-04       | ITEM CARTON CASE                       |                        |                    |
| -                 |               | *                 | H64-0062-04       | OUTER CARTON CASE                      |                        |                    |
| 260               | 1G            |                   | J19-4409-22       | HOLDER ASSY                            |                        |                    |
| 261               | 2E            |                   | J19-4414-14       | HOLDER                                 |                        |                    |
| 262               | 2E            |                   | J19-4415-04       | HOLDER                                 |                        |                    |

E: Europe W: Without Europe P: Canada X: Australia

K: U.S.A. and Canada M: Without Europe, U.S.A. and Canada

▲ indicates safety critical components.

# KDC-C601FM

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|---------------------------------------|---------------|-------------------|-------------------|-------------------------------|------------------------|--------------------|
| 265                                   | 1G            |                   | J19-4443-14       | BRACKET                       |                        |                    |
| 266                                   | 1G            |                   | J19-4444-14       | BRACKET                       |                        |                    |
| 267                                   | 1G            |                   | J19-4468-04       | HOLDER                        |                        |                    |
| 270                                   | 2E            |                   | J21-7283-04       | MOUNTING HARDWARE ASSY        |                        |                    |
| 272                                   | 2F            |                   | J21-7292-13       | MOUNTING HARDWARE ASSY        |                        |                    |
| 274                                   | 1G            |                   | J21-7328-14       | MOUNTING HARDWARE ASSY        |                        |                    |
| 276                                   | 1E            |                   | J21-7347-23       | MOUNTING HARDWARE ASSY        |                        |                    |
| 277                                   | 1G            |                   | J69-0503-04       | ADHESIVE TAPE                 |                        |                    |
| FFPC1                                 | 2E            |                   | J84-0029-12       | FLEXIBLE PRINTED WIRING BOARD |                        |                    |
| FFPC2                                 | 2E            |                   | J84-0030-02       | FLEXIBLE PRINTED WIRING BOARD |                        |                    |
| 278                                   | 2G            | *                 | K24-1326-04       | KNOB                          |                        |                    |
| 280                                   | 1G            |                   | N99-1576-15       | SCREW SET                     |                        |                    |
| -                                     |               |                   | N80-2006-45       | PAN HEAD TAPTITE SCREW        |                        |                    |
| -                                     |               |                   | N86-2604-45       | BINDING HEAD TAPTITE SCREW    |                        |                    |
| A                                     | 3E            |                   | N09-4062-05       | TAPTITE SCREW (2X 3,+S341T)   |                        |                    |
| B                                     | 2E, 3F        |                   | N19-2022-04       | FLAT WASHER                   |                        |                    |
| C                                     | 2E            |                   | N19-2033-05       | FLAT WASHER                   |                        |                    |
| D                                     | 1E            |                   | N29-0206-04       | RETAINING RING (27L)          |                        |                    |
| E                                     | 2F, 3F        |                   | N29-0208-04       | RETAINING RING (37L)          |                        |                    |
| G                                     | 2E            |                   | N39-2025-46       | PAN HEAD MACHIN SCREW         |                        |                    |
| H                                     | 2G            |                   | N82-2605-46       | BINDIG HEAD TAPTITE SCREW     |                        |                    |
| J                                     | 1F, 3E        |                   | N86-2605-46       | BINDING HEAD TAPTITE SCREW    |                        |                    |
| K                                     | 2F            |                   | N89-2606-46       | BINDING HEAD TAPTITE SCREW    |                        |                    |
| L                                     | 2G, 3H        |                   | N89-3005-45       | BINDING HEAD TAPTITE SCREW    |                        |                    |
| SSW1                                  | 1E            |                   | S74-0802-05       | MICRO SWITCH                  |                        |                    |
| 281                                   | 1I            | *                 | T95-0211-08       | DISPLAY ASSY                  |                        |                    |
| 282                                   | 1I            | *                 | W01-0714-08       | ACCESSORY                     |                        |                    |
| RF1                                   | 3J            | *                 | W02-1393-05       | TRANSMITTING ASSY             |                        |                    |
| ME1                                   | 2E            | *                 | X92-1660-07       | MECHANISM ASSY                |                        |                    |
| <b>SWITCH UNIT (X13-7030-00)</b>      |               |                   |                   |                               |                        |                    |
| WH31                                  |               | *                 | E31-8280-05       | WIRING HARNESS                |                        |                    |
| S31                                   |               |                   | S40-1607-05       | PUSH SWITCH                   |                        |                    |
| S32                                   |               | *                 | S40-1139-05       | PUSH SWITCH                   |                        |                    |
| <b>SUB-CIRCUIT UNIT (X13-7060-00)</b> |               |                   |                   |                               |                        |                    |
| 305                                   | 3F            |                   | A10-2135-13       | CHASSIS CALKING ASSY          |                        |                    |
| D21                                   |               |                   | B30-1326-05       | LED                           |                        |                    |
| 330                                   | 3F            |                   | D13-1096-13       | GEAR                          |                        |                    |
| 331                                   | 3F            |                   | D13-1097-04       | GEAR                          |                        |                    |
| 332                                   | 3F            |                   | D13-1099-04       | GEAR                          |                        |                    |
| 334                                   | 3F            |                   | D13-1100-04       | GEAR                          |                        |                    |
| 335                                   | 3F            |                   | D13-1101-04       | WORM                          |                        |                    |
| CN21                                  |               |                   | E40-5459-05       | SOCKET FOR PIN ASSY           |                        |                    |
| CN22                                  |               |                   | E40-3246-05       | PIN ASSY                      |                        |                    |
| 356                                   | 3F            |                   | G02-1143-04       | FLAT SPRING                   |                        |                    |
| 363                                   | 3F            |                   | J19-4416-04       | HOLDER                        |                        |                    |
| A                                     | 3E            |                   | N09-4062-05       | TAPTITE SCREW (2X 3)          |                        |                    |
| B                                     | 3E            |                   | N19-2022-04       | FLAT WASHER                   |                        |                    |

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|------------------------------|---------------|-------------------|-------------------|-------------------------|------------------------|--------------------|
| R21                          |               |                   | RK73FB2A223J      | CHIP R 22K J 1/10W      |                        |                    |
| R23                          |               |                   | RK73FB2A102J      | CHIP R 1.0K J 1/10W     |                        |                    |
| R24 -29                      |               |                   | RK73FB2A101J      | CHIP R 100 J 1/10W      |                        |                    |
| R30                          |               |                   | RK73EB2B561J      | CHIP R 560 J 1/8W       |                        |                    |
| R32                          |               |                   | RK73EB2B222J      | CHIP R 2.2K J 1/8W      |                        |                    |
| R33                          |               |                   | RK73FB2A223J      | CHIP R 22K J 1/10W      |                        |                    |
| R34                          |               |                   | RK73FB2A473J      | CHIP R 47K J 1/10W      |                        |                    |
| R35 -38                      |               |                   | RK73FB2A223J      | CHIP R 22K J 1/10W      |                        |                    |
| R40                          |               |                   | RK73FB2A472J      | CHIP R 4.7K J 1/10W     |                        |                    |
| R41                          |               |                   | RK73FB2A103J      | CHIP R 10K J 1/10W      |                        |                    |
| R42                          |               |                   | RK73FB2A472J      | CHIP R 4.7K J 1/10W     |                        |                    |
| R43 -47                      |               |                   | RK73FB2A223J      | CHIP R 22K J 1/10W      |                        |                    |
| R48                          |               |                   | R92-2063-05       | CHIP R 680 J 1/2W       |                        |                    |
| R49 -51                      |               |                   | RK73FB2A223J      | CHIP R 22K J 1/10W      |                        |                    |
| R52                          |               |                   | RK73FB2A472J      | CHIP R 4.7K J 1/10W     |                        |                    |
| R53                          |               |                   | RK73EB2B561J      | CHIP R 560 J 1/8W       |                        |                    |
| R54                          |               |                   | RK73FB2A103J      | CHIP R 10K J 1/10W      |                        |                    |
| R55                          |               |                   | RK73EB2B222J      | CHIP R 2.2K J 1/8W      |                        |                    |
| R58                          |               |                   | RK73FB2A473J      | CHIP R 47K J 1/10W      |                        |                    |
| W1 ,2                        |               |                   | R92-2053-05       | CHIP R 0 J 1/8W         |                        |                    |
| D6                           |               |                   | MA8091-M          | ZENER DIODE             |                        |                    |
| D7                           |               |                   | MA8075-M          | ZENER DIODE             |                        |                    |
| D8                           |               |                   | MA110             | DIODE                   |                        |                    |
| D9                           |               |                   | MA8062-M          | ZENER DIODE             |                        |                    |
| D10                          |               |                   | MA110             | DIODE                   |                        |                    |
| D11                          |               | *                 | ERA15-01          | DIODE                   |                        |                    |
| D12                          |               |                   | DA204K            | DIODE                   |                        |                    |
| D13                          |               |                   | DAP202K           | DIODE                   |                        |                    |
| IC3                          |               | *                 | 75112GF-740-3BE   | IC                      |                        |                    |
| IC4                          |               |                   | S-80737AN-D1      | IC                      |                        |                    |
| IC5                          |               |                   | SN74HC367ANS      | IC                      |                        |                    |
| IC7                          |               |                   | TA7291P           | IC(MOTOR DRIVER)        |                        |                    |
| IC8                          |               |                   | M5278D05          | IC(VOLTAGE REGULATOR)   |                        |                    |
| Q1                           |               |                   | 2SB1050           | TRANSISTOR              |                        |                    |
| Q2                           |               |                   | 2SB941            | TRANSISTOR              |                        |                    |
| Q3 ,4                        |               |                   | DTC124EK          | DIGITAL TRANSISTOR      |                        |                    |
| Q5                           |               |                   | DTA124EK          | DIGITAL TRANSISTOR      |                        |                    |
| Q6                           |               |                   | DTC124EK          | DIGITAL TRANSISTOR      |                        |                    |
| Q7                           |               |                   | 2SB1188           | TRANSISTOR              |                        |                    |
| Q8                           |               |                   | DTA124EK          | DIGITAL TRANSISTOR      |                        |                    |
| Q9                           |               |                   | DTC124EK          | DIGITAL TRANSISTOR      |                        |                    |
| Q10                          |               |                   | 2SC2412K          | TRANSISTOR              |                        |                    |
| CD PLAYER UNIT (X32-2340-01) |               |                   |                   |                         |                        |                    |
| C1                           |               |                   | CK73FB1H103K      | CHIP C 0.010UF K        |                        |                    |
| C2                           |               |                   | CC73FCH1H220J     | CHIP C 22PF J           |                        |                    |
| C3                           |               |                   | CC73FCH1H020C     | CHIP C 2.0PF C          |                        |                    |
| C4                           |               |                   | CK73FB1H472K      | CHIP C 4700PF K         |                        |                    |
| C5                           |               |                   | CK73FB1E473KTA    | CHIP C 0.047UF K        |                        |                    |
| C6                           |               |                   | CC73FCH1H181J     | CHIP C 180PF J          |                        |                    |
| C7                           |               |                   | CK73FB1H223KTA    | CHIP C 0.022UF K        |                        |                    |
| C8                           |               |                   | CK73FB1E393KTA    | CHIP C 0.039UF K        |                        |                    |
| C9                           |               |                   | C92-1025-05       | ELECTRO 0.47UF 50WV     |                        |                    |
| C10 ,11                      |               |                   | C92-1020-05       | ELECTRO 10UF 6.3WV      |                        |                    |
| C12                          |               |                   | CK73FB1H153K      | CHIP C 0.015UF K        |                        |                    |

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|------------------|---------------|-------------------|-------------------|-------------------------------|------------------------|--------------------|
| C13              |               |                   | CK73FB1H223KTA    | CHIP C 0.022UF K              |                        |                    |
| C14              |               |                   | C92-1020-05       | ELECTRØ 10UF 6.3WV            |                        |                    |
| C15              |               |                   | C92-1026-05       | ELECTRØ 1UF 50WV              |                        |                    |
| C16              |               |                   | C92-1023-05       | ELECTRØ 22UF 4.0WV            |                        |                    |
| C18              |               |                   | CK73EF1C105Z      | CHIP C 1.0UF Z                |                        |                    |
| C20 ,21          |               |                   | CK73EF1C105Z      | CHIP C 1.0UF Z                |                        |                    |
| C22 ,23          |               |                   | CK73FB1E393KTA    | CHIP C 0.039UF K              |                        |                    |
| C24              |               |                   | CC73FCH1H101J     | CHIP C 100PF J                |                        |                    |
| C25 ,26          |               |                   | CK73FB1H103K      | CHIP C 0.010UF K              |                        |                    |
| C27 ,28          |               |                   | CK73EF1C105Z      | CHIP C 1.0UF Z                |                        |                    |
| C29 ,30          |               |                   | CC73FCH1H330J     | CHIP C 33PF J                 |                        |                    |
| C32              |               |                   | CK73EB1E104K      | CHIP C 0.10UF K               |                        |                    |
| C33              |               |                   | CK73EB1E224K      | CHIP C 0.22UF K               |                        |                    |
| C35              |               |                   | CC73FCH1H560J     | CHIP C 56PF J                 |                        |                    |
| C38              |               |                   | CK73FB1H102K      | CHIP C 1000PF K               |                        |                    |
| C41              |               |                   | CC73FCH1H220J     | CHIP C 22PF J                 |                        |                    |
| C42              |               |                   | CC73FCH1H330J     | CHIP C 33PF J                 |                        |                    |
| C45              |               |                   | C92-0012-05       | TANTAL 22UF 6.3WV             |                        |                    |
| C47              |               |                   | C92-1026-05       | ELECTRØ 1UF 50WV              |                        |                    |
| C48              |               |                   | C92-1019-05       | ELECTRØ 4.7UF 16WV            |                        |                    |
| C49              |               |                   | CK73FB1H183KTA    | CHIP C 0.018UF K              |                        |                    |
| C60 ,61          |               |                   | CK73EB1E104K      | CHIP C 0.10UF K               |                        |                    |
| C66              |               |                   | CK73FB1H102K      | CHIP C 1000PF K               |                        |                    |
| C67              |               |                   | CK73FB1H103K      | CHIP C 0.010UF K              |                        |                    |
| C68              |               |                   | CK73FB1H102K      | CHIP C 1000PF K               |                        |                    |
| C101             |               |                   | CK73FB1H331K      | CHIP C 330PF K                |                        |                    |
| C103             |               |                   | CK73FB1H331K      | CHIP C 330PF K                |                        |                    |
| C105-108         |               |                   | CC73FCH1H181J     | CHIP C 180PF J                |                        |                    |
| C109,110         |               |                   | CK73FB1H471K      | CHIP C 470PF K                |                        |                    |
| C111,112         |               |                   | C92-1019-05       | ELECTRØ 4.7UF 16WV            |                        |                    |
| C113,114         |               |                   | C93-1044-05       | CERAMIC 2200PF K              |                        |                    |
| C115,116         |               |                   | C92-1019-05       | ELECTRØ 4.7UF 16WV            |                        |                    |
| C117             |               |                   | C92-1020-05       | ELECTRØ 10UF 6.3WV            |                        |                    |
| C118,119         |               |                   | CK73EB1E104K      | CHIP C 0.10UF K               |                        |                    |
| C120,121         |               |                   | C93-1044-05       | CERAMIC 2200PF K              |                        |                    |
| C122             |               |                   | CK73EB1E104K      | CHIP C 0.10UF K               |                        |                    |
| C123             |               |                   | CK73FB1E473KTA    | CHIP C 0.047UF K              |                        |                    |
| C126             |               |                   | CK73FB1E473KTA    | CHIP C 0.047UF K              |                        |                    |
| C130             |               |                   | CC73FCH1H101J     | CHIP C 100PF J                |                        |                    |
| C131             |               |                   | CK73FB1E473KTA    | CHIP C 0.047UF K              |                        |                    |
| C132             |               |                   | C92-1020-05       | ELECTRØ 10UF 6.3WV            |                        |                    |
| CN1              |               |                   | E40-9251-05       | FLAT CABLE CONNECTOR          |                        |                    |
| CN2              |               |                   | E40-9244-05       | FLAT CABLE CONNECTOR          |                        |                    |
| CN3              |               |                   | E40-5266-05       | FLAT CABLE CONNECTOR          |                        |                    |
| CN4              |               |                   | E40-5294-05       | FLAT CABLE CONNECTOR          |                        |                    |
| CN5              |               |                   | E40-9256-05       | FLAT CABLE CONNECTOR          |                        |                    |
| CN7              |               |                   | E40-9252-05       | FLAT CABLE CONNECTOR          |                        |                    |
| L1               |               |                   | L33-0916-05       | SMALL FIXED INDUCTOR          |                        |                    |
| L2               |               |                   | L40-1001-31       | SMALL FIXED INDUCTOR(10UH)    |                        |                    |
| L3 ,4            |               |                   | L33-0916-05       | SMALL FIXED INDUCTOR          |                        |                    |
| X1               |               |                   | L78-0505-05       | RESONATOR                     |                        |                    |
| X2               |               |                   | L77-2011-05       | CRYSTAL RESONATOR(16.9344MHZ) |                        |                    |

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|------------------|---------------|-------------------|-------------------|-------------------------|------------------------|--------------------|
| R1               |               |                   | RK73FB2A102J      | CHIP R 1.0K J 1/10W     |                        |                    |
| R2               |               |                   | RK73EB2B100J      | CHIP R 10 J 1/8W        |                        |                    |
| R3 , 4           |               |                   | RK73FB2A472J      | CHIP R 4.7K J 1/10W     |                        |                    |
| R5               |               |                   | RK73FB2A153J      | CHIP R 15K J 1/10W      |                        |                    |
| R6               |               |                   | RK73FB2A910J      | CHIP R 91 J 1/10W       |                        |                    |
| R7               |               |                   | RK73FB2A241J      | CHIP R 240 J 1/10W      |                        |                    |
| R8               |               |                   | RK73FB2A562J      | CHIP R 5.6K J 1/10W     |                        |                    |
| R9               |               |                   | RK73FB2A134J      | CHIP R 130K J 1/10W     |                        |                    |
| R10              |               |                   | RK73FB2A822J      | CHIP R 8.2K J 1/10W     |                        |                    |
| R11              |               |                   | RK73FB2A123J      | CHIP R 12K J 1/10W      |                        |                    |
| R12              |               |                   | RK73FB2A223J      | CHIP R 22K J 1/10W      |                        |                    |
| R13 , 14         |               |                   | RK73FB2A123J      | CHIP R 12K J 1/10W      |                        |                    |
| R16              |               |                   | RK73FB2A331J      | CHIP R 330 J 1/10W      |                        |                    |
| R17              |               |                   | RK73FB2A223J      | CHIP R 22K J 1/10W      |                        |                    |
| R18              |               |                   | RK73FB2A391J      | CHIP R 390 J 1/10W      |                        |                    |
| R19              |               |                   | RK73FB2A272J      | CHIP R 2.7K J 1/10W     |                        |                    |
| R20              |               |                   | RK73FB2A122J      | CHIP R 1.2K J 1/10W     |                        |                    |
| R21              |               |                   | RK73FB2A125J      | CHIP R 1.2M J 1/10W     |                        |                    |
| R22              |               |                   | RK73FB2A471J      | CHIP R 470 J 1/10W      |                        |                    |
| R23              |               |                   | RK73FB2A103J      | CHIP R 10K J 1/10W      |                        |                    |
| R24 , 25         |               |                   | RK73EB2B222J      | CHIP R 2.2K J 1/8W      |                        |                    |
| R26 , 27         |               |                   | RK73FB2A102J      | CHIP R 1.0K J 1/10W     |                        |                    |
| R28              |               |                   | RK73FB2A333J      | CHIP R 33K J 1/10W      |                        |                    |
| R29 , 30         |               |                   | RK73FB2A154J      | CHIP R 150K J 1/10W     |                        |                    |
| R33              |               |                   | RK73FB2A473J      | CHIP R 47K J 1/10W      |                        |                    |
| R34              |               |                   | RK73FB2A221J      | CHIP R 220 J 1/10W      |                        |                    |
| R35              |               |                   | RK73EB2B472J      | CHIP R 4.7K J 1/8W      |                        |                    |
| R36              |               |                   | RK73FB2A562J      | CHIP R 5.6K J 1/10W     |                        |                    |
| R37              |               |                   | RK73FB2A474J      | CHIP R 470K J 1/10W     |                        |                    |
| R38              |               |                   | RK73EB2B103J      | CHIP R 10K J 1/8W       |                        |                    |
| R39              |               |                   | RK73FB2A103J      | CHIP R 10K J 1/10W      |                        |                    |
| R40 , 41         |               |                   | RK73FB2A472J      | CHIP R 4.7K J 1/10W     |                        |                    |
| R42              |               |                   | RK73FB2A104J      | CHIP R 100K J 1/10W     |                        |                    |
| R43              |               |                   | RK73FB2A224J      | CHIP R 220K J 1/10W     |                        |                    |
| R44              |               |                   | RK73FB2A822J      | CHIP R 8.2K J 1/10W     |                        |                    |
| R45              |               |                   | RK73FB2A272J      | CHIP R 2.7K J 1/10W     |                        |                    |
| R46              |               |                   | RK73FB2A183J      | CHIP R 18K J 1/10W      |                        |                    |
| R47              |               |                   | RK73FB2A393J      | CHIP R 39K J 1/10W      |                        |                    |
| R48              |               |                   | RK73FB2A102J      | CHIP R 1.0K J 1/10W     |                        |                    |
| R49              |               |                   | RK73FB2A331J      | CHIP R 330 J 1/10W      |                        |                    |
| R50              |               |                   | RK73FB2A473J      | CHIP R 47K J 1/10W      |                        |                    |
| R51              |               |                   | RK73FB2A224J      | CHIP R 220K J 1/10W     |                        |                    |
| R52              |               |                   | RK73FB2A225J      | CHIP R 2.2M J 1/10W     |                        |                    |
| R53              |               |                   | RK73FB2A333J      | CHIP R 33K J 1/10W      |                        |                    |
| R55              |               |                   | RK73FB2A103J      | CHIP R 10K J 1/10W      |                        |                    |
| R57              |               |                   | RK73FB2A102J      | CHIP R 1.0K J 1/10W     |                        |                    |
| R58              |               |                   | RK73FB2A122J      | CHIP R 1.2K J 1/10W     |                        |                    |
| R60              |               |                   | RK73FB2A272J      | CHIP R 2.7K J 1/10W     |                        |                    |
| R61 -63          |               |                   | RK73FB2A103J      | CHIP R 10K J 1/10W      |                        |                    |
| R65              |               |                   | RK73FB2A473J      | CHIP R 47K J 1/10W      |                        |                    |
| R66              |               |                   | RK73FB2A104J      | CHIP R 100K J 1/10W     |                        |                    |
| R67              |               |                   | RK73FB2A273J      | CHIP R 27K J 1/10W      |                        |                    |
| R68              |               |                   | RK73FB2A123J      | CHIP R 12K J 1/10W      |                        |                    |
| R69              |               |                   | RK73FB2A183J      | CHIP R 18K J 1/10W      |                        |                    |
| R70              |               |                   | RK73FB2A473J      | CHIP R 47K J 1/10W      |                        |                    |

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|------------------|---------------|-------------------|-------------------|-----------------------------|------------------------|--------------------|
| R71              |               |                   | RK73FB2A223J      | CHIP R 22K J 1/10W          |                        |                    |
| R72              |               |                   | RK73FB2A104J      | CHIP R 100K J 1/10W         |                        |                    |
| R73 -76          |               |                   | RK73FB2A223J      | CHIP R 22K J 1/10W          |                        |                    |
| R77              |               |                   | RK73EB2B223J      | CHIP R 22K J 1/8W           |                        |                    |
| R78              |               |                   | RK73FB2A103J      | CHIP R 10K J 1/10W          |                        |                    |
| R79              |               |                   | RK73FB2A332J      | CHIP R 3.3K J 1/10W         |                        |                    |
| R80              |               |                   | RK73EB2B223J      | CHIP R 22K J 1/8W           |                        |                    |
| R81              |               |                   | RK73FB2A102J      | CHIP R 1.0K J 1/10W         |                        |                    |
| R82 -85          |               |                   | RK73FB2A104J      | CHIP R 100K J 1/10W         |                        |                    |
| R86              |               |                   | RK73FB2A184J      | CHIP R 180K J 1/10W         |                        |                    |
| R87              |               |                   | RK73FB2A333J      | CHIP R 33K J 1/10W          |                        |                    |
| R88              |               |                   | RK73EB2B563J      | CHIP R 56K J 1/8W           |                        |                    |
| R89              |               |                   | RK73EB2B683J      | CHIP R 68K J 1/8W           |                        |                    |
| R90              |               |                   | RK73FB2A103J      | CHIP R 10K J 1/10W          |                        |                    |
| R91              |               |                   | RK73FB2A333J      | CHIP R 33K J 1/10W          |                        |                    |
| R92              |               |                   | RK73EB2B683J      | CHIP R 68K J 1/8W           |                        |                    |
| R96 ,97          |               |                   | RK73FB2A223J      | CHIP R 22K J 1/10W          |                        |                    |
| R98              |               |                   | RK73EB2B220J      | CHIP R 22 J 1/8W            |                        |                    |
| R99              |               |                   | RK73FB2A222J      | CHIP R 2.2K J 1/10W         |                        |                    |
| R101-108         |               |                   | RK73FB2A472J      | CHIP R 4.7K J 1/10W         |                        |                    |
| R109-112         |               |                   | RK73FB2A822J      | CHIP R 8.2K J 1/10W         |                        |                    |
| R113,114         |               |                   | RK73FB2A222J      | CHIP R 2.2K J 1/10W         |                        |                    |
| R115,116         |               |                   | RK73FB2A272J      | CHIP R 2.7K J 1/10W         |                        |                    |
| R117,118         |               |                   | RK73FB2A222J      | CHIP R 2.2K J 1/10W         |                        |                    |
| R121,122         |               |                   | RK73FB2A681J      | CHIP R 680 J 1/10W          |                        |                    |
| R123,124         |               |                   | RK73FB2A223J      | CHIP R 22K J 1/10W          |                        |                    |
| R125,126         |               |                   | RK73FB2A103J      | CHIP R 10K J 1/10W          |                        |                    |
| R127             |               |                   | RK73FB2A561J      | CHIP R 560 J 1/10W          |                        |                    |
| R128             |               |                   | RK73FB2A102J      | CHIP R 1.0K J 1/10W         |                        |                    |
| R151             |               |                   | RK73FB2A102J      | CHIP R 1.0K J 1/10W         |                        |                    |
| R153             |               |                   | RK73FB2A682J      | CHIP R 6.8K J 1/10W         |                        |                    |
| R154             |               |                   | RK73FB2A225J      | CHIP R 2.2M J 1/10W         |                        |                    |
| R156             |               |                   | RK73FB2A221J      | CHIP R 220 J 1/10W          |                        |                    |
| R157             |               |                   | RK73FB2A154J      | CHIP R 150K J 1/10W         |                        |                    |
| R160             |               |                   | RK73FB2A104J      | CHIP R 100K J 1/10W         |                        |                    |
| R161             |               |                   | RK73FB2A103J      | CHIP R 10K J 1/10W          |                        |                    |
| R162             |               |                   | RK73FB2A125J      | CHIP R 1.2M J 1/10W         |                        |                    |
| VR1              |               |                   | R12-6421-05       | TRIM POT. 4.7K              |                        |                    |
| VR2              |               |                   | R12-6429-05       | TRIMMING POT.(100K)         |                        |                    |
| W1 -7            |               |                   | R92-2052-05       | CHIP R 0 J 1/10W            |                        |                    |
| W9 ,10           |               |                   | R92-2052-05       | CHIP R 0 J 1/10W            |                        |                    |
| W11 -25          |               |                   | R92-2053-05       | CHIP R 0 J 1/8W             |                        |                    |
| W31 -34          |               |                   | R92-2052-05       | CHIP R 0 J 1/10W            |                        |                    |
| W50              |               |                   | R92-2052-05       | CHIP R 0 J 1/10W            |                        |                    |
| D1               |               |                   | MA110             | DIODE                       |                        |                    |
| D2               |               |                   | MA8062            | ZENER DIODE                 |                        |                    |
| D3               |               |                   | MA110             | DIODE                       |                        |                    |
| D4               |               |                   | MA8091            | ZENER DIODE                 |                        |                    |
| D6 -13           |               |                   | MA110             | DIODE                       |                        |                    |
| IC1              |               |                   | TA8191F           | IC(RF AMP , SERVØ)          |                        |                    |
| IC2              |               |                   | TC9236AF          | IC(SIGNAL PROCESSOR)        |                        |                    |
| IC3              |               |                   | AN8388SR          | IC(MOTOR DRIVER)            |                        |                    |
| IC5              |               |                   | TA7291F           | IC(LOADING)                 |                        |                    |
| IC6              |               |                   | 75008GB-696-3B4   | IC(MECHANISM MICROCOMPUTER) |                        |                    |

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|---------------------------------------|--------------------------------|-------------------|---|--|------------------------|--------------------|
| IC7<br>IC8 ,9<br>IC11<br>IC12<br>IC13 |                                | *                 | SM5871AS<br>NJM4565MD<br>TA78L05F<br>TC7SU04F<br>TC74AC04F              | IC(D/A CONVERTER x8 OVER SAM)<br>IC(OP AMP X2)<br>IC(5V VOLTAGE REGULATOR)<br>IC(INVERTER)<br>IC(INVERTER) |                        |                    |
| IC16<br>IC17<br>Q1<br>Q2<br>Q3        |                                |                   | TC7SU04F<br>TC74AC04F<br>2SB624(BV3)<br>2SA1037K<br>DTC124EK            | IC(INVERTER)<br>IC(INVERTER)<br>TRANSISTOR<br>TRANSISTOR<br>DIGITAL TRANSISTOR                             |                        |                    |
| Q4<br>Q5<br>Q7 ,8<br>Q9<br>Q10        |                                |                   | 2SC2412K<br>DTA124EK<br>DTC114YK<br>2SA1037K<br>2SC2412K                | TRANSISTOR<br>DIGITAL TRANSISTOR<br>DIGITAL TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR                         |                        |                    |
| Q11<br>Q12<br>Q13<br>Q14<br>Q15       |                                |                   | DTC114YK<br>DTC124EK<br>2SA1362(Y)<br>2SD1624<br>DTA124EK               | DIGITAL TRANSISTOR<br>DIGITAL TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR<br>DIGITAL TRANSISTOR                 |                        |                    |
| Q16 ,17<br>Q18 -20<br>TH1             |                                |                   | 2SD1757K<br>DTC124EK<br>NT732BTD33K                                     | TRANSISTOR<br>DIGITAL TRANSISTOR<br>THERMISTOR   |                        |                    |
| <b>MECHANISM ASS'Y (X92-1660-07)</b>  |                                |                   |   |  |                        |                    |
| 1<br>2<br>3                           | 3A<br>3D<br>1C                 | *                 | A10-2122-32<br>A10-2124-63<br>A10-2198-02                               | CHASSIS CALKING ASSY<br>CHASSIS ASSY<br>CHASSIS  |                        |                    |
| 6<br>7<br>8<br>9<br>10                | 2B<br>2B, 3B<br>2A<br>2A<br>2A | *                 | D10-2693-24<br>D10-2695-14<br>D10-2696-23<br>D10-2697-24<br>D10-2698-34 | LEVER<br>LEVER<br>LEVER<br>LEVER<br>ARM ASSY   |                        |                    |
| 12<br>13<br>14<br>16<br>18            | 2D<br>2D<br>2C<br>1C<br>2A     | *                 | D10-2700-04<br>D10-2701-04<br>D10-2702-34<br>D10-2787-03<br>D10-2716-23 | ROD<br>ROD<br>LEVER ASSY<br>LEVER<br>LEVER ASSY  |                        |                    |
| 20<br>21<br>22<br>23<br>24            | 3B<br>2B<br>2C<br>2C<br>2B     | *                 | D12-0604-23<br>D12-0605-33<br>D13-1029-24<br>D13-1030-24<br>D19-0605-14 | CAM<br>CAM<br>GEAR<br>GEAR<br>CLUTCH ASSY  |                        |                    |
| 25<br>26<br>27<br>28<br>29            | 2A<br>2B<br>2B<br>2B<br>3A     | *                 | D13-1040-04<br>D13-1042-44<br>D13-1043-14<br>D13-1044-24<br>D13-1083-04 | GEAR<br>GEAR<br>GEAR<br>GEAR<br>WORM   |                        |                    |
| 30<br>31<br>32<br>33<br>34            | 2A<br>1A<br>2A<br>2B<br>1A     |                   | D13-1084-04<br>D13-1085-24<br>D13-1086-03<br>D14-0622-04<br>D14-0633-04 | GEAR<br>GEAR<br>LACK (GEAR)<br>ROLLER ASSY<br>ROLLER   |                        |                    |
| 35<br>36                              | 2A<br>2D                       |                   | D14-0624-13<br>D21-2109-14  | ROLLER<br>SHAFT ASSY   |                        |                    |

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| 37                                      | 3A            |                   | D21-2111-44       | SHAFT ASSY                    |                        |                    |
| 38                                      | 1A            |                   | D23-0905-24       | RETAINER                      |                        |                    |
| 39                                      | 3A            |                   | D23-0910-14       | RETAINER                      |                        |                    |
| 40                                      | 3C, 3D        |                   | D39-0210-03       | DAMPER                        |                        |                    |
| 41                                      | 2C            |                   | F20-1708-14       | INSULATING SHEET              |                        |                    |
| 42                                      | 2A            |                   | G01-2584-04       | EXTENSION SPRING              |                        |                    |
| 43                                      | 2C            |                   | G01-2585-04       | EXTENSION SPRING              |                        |                    |
| 46                                      | 1C            |                   | G01-2588-04       | EXTENSION SPRING              |                        |                    |
| 47                                      | 2B            |                   | G01-2590-04       | EXTENSION SPRING              |                        |                    |
| 48                                      | 3A            |                   | G01-2591-14       | EXTENSION SPRING              |                        |                    |
| 49                                      | 3A            |                   | G01-2604-04       | EXTENSION SPRING              |                        |                    |
| 50                                      | 1C            |                   | G01-2630-04       | TORSION COIL SPRING           |                        |                    |
| 51                                      | 2D            |                   | G02-1136-14       | FLAT SPRING                   |                        |                    |
| 52                                      | 2C            |                   | G02-1138-04       | FLAT SPRING                   |                        |                    |
| 53                                      | 2C            |                   | G02-1139-14       | FLAT SPRING                   |                        |                    |
| 54                                      | 2D            |                   | G02-1140-03       | FLAT SPRING ASSY              |                        |                    |
| 55                                      | 1C            |                   | G02-1151-04       | FLAT SPRING                   |                        |                    |
| 56                                      | 2A            |                   | G02-1156-04       | FLAT SPRING                   |                        |                    |
| 57                                      | 3A            |                   | G02-1157-04       | FLAT SPRING                   |                        |                    |
| -                                       |               |                   | H25-1103-04       | PROTECTION BAG (200X250X0.05) |                        |                    |
| 58                                      | 2C            |                   | J11-0603-13       | CLAMPER                       |                        |                    |
| 59                                      | 2C            |                   | J12-0662-04       | PIN                           |                        |                    |
| 60                                      | 3B            |                   | J12-0663-04       | PIN                           |                        |                    |
| 62                                      | 3C, 3D        |                   | J19-4411-14       | HOLDER                        |                        |                    |
| 63                                      | 1A            |                   | J19-4412-03       | HOLDER                        |                        |                    |
| 64                                      | 2B            |                   | J21-7268-24       | MOUNTING HARDWARE ASSY        |                        |                    |
| 65                                      | 3A            |                   | J21-7270-03       | MOUNTING HARDWARE             |                        |                    |
| 66                                      | 2A            |                   | J21-7271-14       | MOUNTING HARDWARE ASSY        |                        |                    |
| 69                                      | 2C            |                   | J30-1014-14       | SPACER                        |                        |                    |
| FPC1                                    | 2C            |                   | J84-0021-03       | FLEXIBLE PRINTED WIRING BOARD |                        |                    |
| A                                       | 1A            |                   | N39-2025-46       | PAN HEAD MACHIN SCREW         |                        |                    |
| B                                       | 3A            |                   | N09-4023-05       | MACHINE SCREW (M2X3,+)        |                        |                    |
| C                                       | 2C            |                   | N39-1728-46       | PAN HEAD MACHIN SCREW         |                        |                    |
| D                                       | 2C            |                   | N80-2006-46       | PAN HEAD TAPTITE SCREW        |                        |                    |
| H                                       | 2C            |                   | N39-1722-45       | PAN HEAD MACHIN SCREW         |                        |                    |
| S1                                      | 2C            |                   | S40-1112-05       | PUSH SWITCH                   |                        |                    |
| M1                                      | 2C            |                   | T42-0704-15       | DC MOTOR                      |                        |                    |
| M2                                      | 2C            |                   | T42-0724-15       | MOTOR ASSY                    |                        |                    |
| M3                                      | 2A            |                   | T42-0721-05       | DC MOTOR                      |                        |                    |
| PU1                                     | 2B            |                   | T25-0203-15       | OPTICAL PICKUP HEAD           |                        |                    |
| <b>RF MODULATOR ASS'Y (W02-1393-05)</b> |               |                   |                   |                               |                        |                    |
| 301                                     | 1J            | *                 | A01-2572-08       | METALLIC CABINET              |                        |                    |
| C101-104                                |               |                   | CK73FB1H223K      | CHIP C                        | 0.022UF                | K                  |
| C105                                    |               |                   | CE04DW1H4R7M      | ELECTRO                       | 4.7UF                  | 50WV               |
| C106                                    |               |                   | C90-1401-05       | ELECTRO                       | 2200UF                 | 16WV               |
| C107-109                                |               |                   | CE04DW1C101M      | ELECTRO                       | 100UF                  | 16WV               |
| C110                                    |               |                   | CK73FB1H223K      | CHIP C                        | 0.022UF                | K                  |
| C111-115                                |               |                   | CK73FB1H102K      | CHIP C                        | 1000PF                 | K                  |
| C116                                    |               |                   | CE04DW1A470M      | ELECTRO                       | 47UF                   | 10WV               |
| C117                                    |               |                   | CE04DW1C100M      | ELECTRO                       | 10UF                   | 16WV               |
| C201                                    |               |                   | CE04DW1C221M      | ELECTRO                       | 220UF                  | 16WV               |
| C202                                    |               |                   | CE04DW1HR47M      | ELECTRO                       | 0.47UF                 | 50WV               |

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|------------------|---------------|-------------------|-------------------|-------------------------|------------------------|--------------------|
| C203             |               |                   | CK73FB1H473K      | CHIP C 0.047UF K        |                        |                    |
| C204             |               |                   | CK73FB1H331K      | CHIP C 330PF K          |                        |                    |
| C205             |               |                   | CK73FB1H104K      | CHIP C 0.10UF K         |                        |                    |
| C206             |               |                   | CE04DW1A101M      | ELECTRØ 100UF 10WV      |                        |                    |
| C207             |               |                   | CE04DW1HR22M      | ELECTRØ 0.22UF 50WV     |                        |                    |
| C208             |               |                   | CE04DW1A101M      | ELECTRØ 100UF 10WV      |                        |                    |
| C209             |               |                   | CE04DW1C221M      | ELECTRØ 220UF 16WV      |                        |                    |
| C210             |               |                   | CE04DW1A101M      | ELECTRØ 100UF 10WV      |                        |                    |
| C211             |               |                   | CE04DW1HR22M      | ELECTRØ 0.22UF 50WV     |                        |                    |
| C212             |               |                   | CE04DW1C221M      | ELECTRØ 220UF 16WV      |                        |                    |
| C213             |               |                   | CE04DW1C100M      | ELECTRØ 10UF 16WV       |                        |                    |
| C214             |               |                   | CK73FB1H103K      | CHIP C 0.010UF K        |                        |                    |
| C215             |               |                   | CE04DW1H010M      | ELECTRØ 1.0UF 50WV      |                        |                    |
| C216             |               |                   | CE04DW1C100M      | ELECTRØ 10UF 16WV       |                        |                    |
| C217             |               |                   | CE04DW1A470M      | ELECTRØ 47UF 10WV       |                        |                    |
| C301,302         |               |                   | CK73FB1H562K      | CHIP C 5600PF K         |                        |                    |
| C303,304         |               |                   | CE04DW1C100M      | ELECTRØ 10UF 16WV       |                        |                    |
| C305,306         |               |                   | CC73FCH1H101J     | CHIP C 100PF J          |                        |                    |
| C307,308         |               |                   | CE04DW1H2R2M      | ELECTRØ 2.2UF 50WV      |                        |                    |
| C311,312         |               |                   | CK73FB1H562K      | CHIP C 5600PF K         |                        |                    |
| C313,314         |               |                   | CK73FB1H102K      | CHIP C 1000PF K         |                        |                    |
| C315,316         |               |                   | C90-1042-08       | CHIP C 0.15UF K         |                        |                    |
| C317,318         |               |                   | CE04DW1H010M      | ELECTRØ 1.0UF 50WV      |                        |                    |
| C319             |               |                   | CE04DW1C100M      | ELECTRØ 10UF 16WV       |                        |                    |
| C320             |               |                   | CK73FB1H103K      | CHIP C 0.010UF K        |                        |                    |
| C321             |               |                   | CC73FCH1H100D     | CHIP C 10PF D           |                        |                    |
| C322             |               |                   | CC73FCH1H221J     | CHIP C 220PF J          |                        |                    |
| C324             |               |                   | CK73FB1H103K      | CHIP C 0.010UF K        |                        |                    |
| C325             |               |                   | CC73FCH1H221J     | CHIP C 220PF J          |                        |                    |
| C326             |               |                   | CK73FB1H222K      | CHIP C 2200PF K         |                        |                    |
| C327             |               |                   | CE04DW1H4R7M      | ELECTRØ 4.7UF 50WV      |                        |                    |
| C328             |               |                   | CC73FUJ1H102J     | CHIP C 1000PF J         |                        |                    |
| C329             |               |                   | CC73FUJ1H080D     | CHIP C 8PF D            |                        |                    |
| C330             |               |                   | CC73FUJ1H040C     | CHIP C 4PF C            |                        |                    |
| C331             |               |                   | CC73FCH1H181J     | CHIP C 180PF J          |                        |                    |
| C332             |               |                   | CC73FUJ1H151J     | CHIP C 150PF J          |                        |                    |
| C333             |               |                   | CK73FB1H103K      | CHIP C 0.010UF K        |                        |                    |
| C334             |               |                   | CK73FB1H102K      | CHIP C 1000PF K         |                        |                    |
| C335             |               |                   | CK73FB1H103K      | CHIP C 0.010UF K        |                        |                    |
| C336             |               |                   | CC73FCH1H100D     | CHIP C 10PF D           |                        |                    |
| C337             |               |                   | CK73FB1H103K      | CHIP C 0.010UF K        |                        |                    |
| C339,340         |               |                   | CC73FCH1H471J     | CHIP C 470PF K          |                        |                    |
| C341,342         |               |                   | CK73FB1H222K      | CHIP C 2200PF K         |                        |                    |
| C345,346         |               |                   | CK73FB1H392K      | CHIP C 3900PF K         |                        |                    |
| C347,348         |               |                   | C90-1042-08       | CHIP C 0.15UF K         |                        |                    |
| C349,350         |               |                   | CE04DW1HR22M      | ELECTRØ 0.22UF 50WV     |                        |                    |
| TC301,302        |               |                   | C05-0508-08       | TRIMMER CAPACITOR       |                        |                    |
| AT1              | 2J            |                   | E30-3707-08       | ANT CORD ASSY           |                        |                    |
| CN102            | 2J            |                   | E56-0802-08       | 8P CONNECTOR            |                        |                    |
| CN104            | 2J            |                   | E08-0413-05       | 4P CONNECTOR            |                        |                    |
| DC1              | 3J            | *                 | E30-4086-08       | 13P CORD ASSY           |                        |                    |
| BPF301           |               |                   | L79-0917-08       | FILTER                  |                        |                    |
| L101             |               |                   | L33-0934-08       | CHOKE COIL              |                        |                    |
| L304             |               |                   | L35-0067-08       | CHOKE COIL              |                        |                    |

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|---|---------------|-------------------|--|---|-------------------------|--------------------|
| L305<br>L306<br>L307<br>L308<br>L309                          |               |                   | L33-0980-08<br>L33-0979-08<br>L33-0970-08<br>L33-0973-08<br>L33-0972-08      | CHOKE COIL<br>CHOKE COIL<br>CHOKE COIL<br>CHOKE COIL<br>CHOKE COIL  |                         |                    |
| L310<br>L311, 312<br>X101<br>X301<br>X302                     |               |                   | L33-0976-08<br>L39-1008-08<br>L78-0518-08<br>L77-2018-08<br>L78-0517-08      | CHOKE COIL<br>COIL<br>RESONATOR<br>CRYSTAL RESONATOR<br>RESONATOR   |                         |                    |
| A<br>B  | 3J<br>2J      |                   | N89-3008-46<br>N89-3006-46   | BINDING HEAD TAPTITE SCREW<br>BINDING HEAD TAPTITE SCREW  |                         |                    |
| R107<br>R108<br>R109<br>R117<br>R121                          |               |                   | RK73FB2A101J<br>RK73FB2A472J<br>RK73FB2A223J<br>RK73FB2A101J<br>RK73FB2A103J | CHIP R 100 J 1/10W<br>CHIP R 4.7K J 1/10W<br>CHIP R 22K J 1/10W<br>CHIP R 100 J 1/10W<br>CHIP R 10K J 1/10W   |                         |                    |
| R122<br>R123<br>R129<br>R130<br>R131                          |               |                   | RK73FB2A203J<br>RK73FB2A222J<br>RK73FB2A223J<br>RK73FB2A102J<br>RK73FB2A220J | CHIP R 20K J 1/10W<br>CHIP R 2.2K J 1/10W<br>CHIP R 22K J 1/10W<br>CHIP R 1.0K J 1/10W<br>CHIP R 22 J 1/10W   |                         |                    |
| R132<br>R201<br>R202<br>R203<br>R204                          |               |                   | RD14DB2H6R2J<br>RK73FB2A153J<br>RK73FB2A472J<br>RK73FB2A333J<br>RK73FB2A123J | SMALL-RD 6.2 J 1/2W<br>CHIP R 15K J 1/10W<br>CHIP R 4.7K J 1/10W<br>CHIP R 33K J 1/10W<br>CHIP R 12K J 1/10W  |                         |                    |
| R205<br>R207<br>R208<br>R209-211<br>R212                      |               |                   | RK73FB2A472J<br>RK73FB2A513J<br>RK73FB2A103J<br>RK73FB2A472J<br>RK73FB2A272J | CHIP R 4.7K J 1/10W<br>CHIP R 51K J 1/10W<br>CHIP R 10K J 1/10W<br>CHIP R 4.7K J 1/10W<br>CHIP R 2.7K J 1/10W |                         |                    |
| R213<br>R214<br>R215<br>R216<br>R217                          |               |                   | RK73FB2A222J<br>RK73FB2A472J<br>RK73FB2A133J<br>RK73FB2A103J<br>RK73FB2A472J | CHIP R 2.2K J 1/10W<br>CHIP R 4.7K J 1/10W<br>CHIP R 13K J 1/10W<br>CHIP R 10K J 1/10W<br>CHIP R 4.7K J 1/10W |                         |                    |
| R218<br>R219<br>R220<br>R221<br>R222                          |               |                   | RK73FB2A133J<br>RK73FB2A334J<br>RK73FB2A223J<br>RK73FB2A102J<br>RK73FB2A220J | CHIP R 13K J 1/10W<br>CHIP R 330K J 1/10W<br>CHIP R 22K J 1/10W<br>CHIP R 1.0K J 1/10W<br>CHIP R 22 J 1/10W   |                         |                    |
| R303, 304<br>R305, 306<br>R307, 308<br>R309, 310<br>R311, 312 |               |                   | RK73FB2A562J<br>RK73FB2A182J<br>RK73FB2A123J<br>RK73FB2A393J<br>RK73FB2A122J | CHIP R 5.6K J 1/10W<br>CHIP R 1.8K J 1/10W<br>CHIP R 12K J 1/10W<br>CHIP R 39K J 1/10W<br>CHIP R 1.2K J 1/10W |                         |                    |
| R313, 314<br>R315, 316<br>R317, 318<br>R319, 320<br>R321, 322 |               |                   | RK73FB2A272J<br>RK73FB2A102J<br>R92-2052-05<br>RK73FB2A272J<br>RK73FB2A682J  | CHIP R 2.7K J 1/10W<br>CHIP R 1.0K J 1/10W<br>CHIP R 0 J 1/10W<br>CHIP R 2.7K J 1/10W<br>CHIP R 6.8K J 1/10W  |                         |                    |
| R323, 324<br>R325, 326  |               |                   | RK73FB2A753J<br>RK73FB2A472J   | CHIP R 75K J 1/10W<br>CHIP R 4.7K J 1/10W   |                         |                    |

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## PARTS LIST

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|------------------|---------------|-------------------|-------------------|----------------------------|------------------------|--------------------|
| R327             |               |                   | RK73FB2A123J      | CHIP R 12K J 1/10W         |                        |                    |
| R328             |               |                   | RK73FB2A271J      | CHIP R 270 J 1/10W         |                        |                    |
| R329             |               |                   | RK73FB2A102J      | CHIP R 1.0K J 1/10W        |                        |                    |
| R330             |               |                   | RK73FB2A124J      | CHIP R 120K J 1/10W        |                        |                    |
| R331             |               |                   | RK73FB2A272J      | CHIP R 2.7K J 1/10W        |                        |                    |
| R332             |               |                   | RK73FB2A103J      | CHIP R 10K J 1/10W         |                        |                    |
| R333             |               |                   | RK73FB2A153J      | CHIP R 15K J 1/10W         |                        |                    |
| R334             |               |                   | RK73FB2A560J      | CHIP R 56 J 1/10W          |                        |                    |
| R335             |               |                   | RK73FB2A221J      | CHIP R 220 J 1/10W         |                        |                    |
| R336             |               |                   | RK73FB2A243J      | CHIP R 24K J 1/10W         |                        |                    |
| R337             |               |                   | RK73FB2A183J      | CHIP R 18K J 1/10W         |                        |                    |
| R338             |               |                   | RK73FB2A101J      | CHIP R 100 J 1/10W         |                        |                    |
| R339             |               |                   | RK73FB2A272J      | CHIP R 2.7K J 1/10W        |                        |                    |
| R340             |               |                   | RK73FB2A101J      | CHIP R 100 J 1/10W         |                        |                    |
| R341, 342        |               |                   | RK73FB2A752J      | CHIP R 7.5K J 1/10W        |                        |                    |
| R345             |               |                   | R92-2052-05       | CHIP R 0 J 1/10W           |                        |                    |
| R346             |               |                   | RK73FB2A154J      | CHIP R 150K J 1/10W        |                        |                    |
| R347, 348        |               |                   | RK73FB2A182J      | CHIP R 1.8K J 1/10W        |                        |                    |
| R349             |               |                   | RK73FB2A272J      | CHIP R 2.7K J 1/10W        |                        |                    |
| R350             |               |                   | RK73FB2A103J      | CHIP R 10K J 1/10W         |                        |                    |
| R351, 352        |               |                   | RK73FB2A122J      | CHIP R 1.2K J 1/10W        |                        |                    |
| VR301            |               |                   | R10-3693-08       | POTENTIOMETER              |                        |                    |
| VR302            |               |                   | R12-3648-08       | TRIMMING POTENTIOMETER     |                        |                    |
| VR303            |               |                   | R12-3647-08       | TRIMMING POTENTIOMETER     |                        |                    |
| RY301            |               |                   | S76-0802-08       | RELAY                      |                        |                    |
| SW301            |               |                   | S62-0830-08       | SLIDE SWITCH               |                        |                    |
| SW302            |               |                   | S62-0807-08       | SLIDE SWITCH               |                        |                    |
| D101             |               |                   | DSC30TC           | DIODE                      |                        |                    |
| D102-104         |               |                   | DSK10C            | DIODE                      |                        |                    |
| D105             |               |                   | MTZ6.2J(B)        | ZENER DIODE                |                        |                    |
| D106             |               |                   | 1SS131            | DIODE                      |                        |                    |
| D107             |               |                   | MTZ5.6J(B)        | ZENER DIODE                |                        |                    |
| D108, 109        |               |                   | 1SS318            | DIODE                      |                        |                    |
| D110             |               |                   | 1SS131            | DIODE                      |                        |                    |
| D111             |               |                   | DSK10C            | DIODE                      |                        |                    |
| D201, 202        |               |                   | DA204K            | DIODE                      |                        |                    |
| D203-205         |               |                   | 1SS131            | DIODE                      |                        |                    |
| D206             |               |                   | DA204K            | DIODE                      |                        |                    |
| D207             |               |                   | 1SS131            | DIODE                      |                        |                    |
| D301             |               |                   | KV1450            | VARIABLE CAPACITANCE DIODE |                        |                    |
| IC101            |               |                   | 75004GB-882-3B4   | IC                         |                        |                    |
| IC102            |               |                   | PST520F           | IC(LOW POWER RESET)        |                        |                    |
| IC103            |               |                   | TC74HC04AP        | IC(HEX INVERTER)           |                        |                    |
| IC201            |               |                   | UPC4570G          | IC                         |                        |                    |
| IC202            |               |                   | NJM78L05A-T3      | IC(VOLTAGE REGULATOR/ +5V) |                        |                    |
| IC301            |               |                   | BA1405F           | IC                         |                        |                    |
| Q101             |               |                   | 2SB1240           | TRANSISTOR                 |                        |                    |
| Q102             |               |                   | DTC124ES          | DIGITAL TRANSISTOR         |                        |                    |
| Q103             |               |                   | 2SA1782T/U-AC     | TRANSISTOR                 |                        |                    |
| Q104             |               |                   | DTC124ES          | DIGITAL TRANSISTOR         |                        |                    |
| Q105             |               |                   | 2SB1009(P,Q)      | TRANSISTOR                 |                        |                    |
| Q106             |               |                   | 2SC4640T/U-AC     | TRANSISTOR                 |                        |                    |
| Q107             |               |                   | 2SB1237           | TRANSISTOR                 |                        |                    |
| Q108             |               |                   | DTC114EK          | DIGITAL TRANSISTOR         |                        |                    |

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|------------------|---------------|-------------------|-------------------|-------------------------|------------------------|--------------------|
| Q201-203         |               |                   | 2SC2412K          | TRANSISTOR              |                        |                    |
| Q204             |               |                   | 2SC4640T/U-AC     | TRANSISTOR              |                        |                    |
| Q205             |               |                   | DTC114GS          | DIGITAL TRANSISTOR      |                        |                    |
| Q206             |               |                   | 2SC2412K          | TRANSISTOR              |                        |                    |
| Q207             |               |                   | 2SB1237           | TRANSISTOR              |                        |                    |
| Q208             |               |                   | DTC114EK          | DIGITAL TRANSISTOR      |                        |                    |
| Q301, 302        |               |                   | 2SA1037K          | TRANSISTOR              |                        |                    |
| Q303, 304        |               |                   | DTC323TK          | DIGITAL TRANSISTOR      |                        |                    |
| Q305             |               |                   | 2SA1037K          | TRANSISTOR              |                        |                    |
| Q306, 307        |               |                   | 2SC2059K          | TRANSISTOR              |                        |                    |

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# KDC-C601FM

## SPECIFICATIONS

### Disc Section

Laser Diode ..... GaAlAs ( $\lambda=780\text{nm}$ )  
Digital Filter ..... 8 Times Over Sampling  
D/A Converter ..... 1 bit  
Spindle Speed\* ..... 500~200rpm (CLV)  
Wow & Flutter ..... Below Measurable Limit  
Modulating Frequency (HI) ..... 88.7MHz  
(LO) ..... 88.3MHz

### Laser Diode Properties

Material ..... GaAlAs  
Wavelength ..... 78nm  
Laser Output Power ..... Less than 44.6 $\mu\text{W}$

\* This output is the value measured at a distance of 200mm from the objective lens surface on the Optical Pick-up Block.

### General

Operating Voltage ..... 14.4V (11~16V)  
Current Consumption ..... 1.4A  
Operating Temperature ..... -10~50°C  
Size (WxHxD)  
(CD auto changer) ..... 281x76x171mm  
(11-1/16x3x6-3/4 in.)  
(Controller) ..... 59x91x17mm  
(2-5/16x3-9/16x11/16 in.)  
(Display Unit) ..... 95x35x19mm  
(3-3/4x1-3/8x3/4 in.)  
(Hide-Away Unit) ..... 150x30x120mm  
(5-7/8x1-3/16x1-3/4 in.)

### Weight

(CD auto changer) ..... 3.1kg (6.8lb)  
(Controller) ..... 50g (0.1lb)  
(Display Unit) ..... 0.1kg (0.2lb)  
(Hide-Away Unit) ..... 0.8kg (1.8lb)

Note : KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

### Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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